abcam

Product datasheet

Human EMMPRIN ELISA Kit ab219631

敲除 验证 重细 SimpleStep ELISA

<u>1 References</u> 12 图像

概述						
产品名称	人EMMPRIN ELISA	式剂 盒				
检 测方法	Colorimetric					
精确度						批次内
	样品	n	Mean	SD	CV%	
	Urine	8			2.5%	
						批次间
	样品	n	Mean	SD	CV%	
	Urine	3			3%	
样品类型	Cell culture supernata	ant, Saliva, U	rine, Serum, H	ep Plasma, EDTA	Plasma, Cit pla	sma
检测类型	Sandwich (quantitativ	ve)				
灵敏度	3.88 pg/ml					
范围	31.3 pg/ml - 200 pg/n	nl				
回收率						特定样本回收率
	样品类型			平均%	范围	

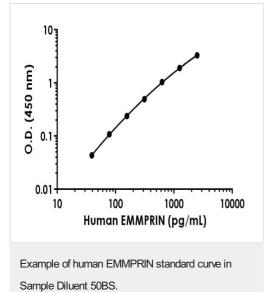
样品类型	平均%	范围
Cell culture supernatant	112	111% - 113%
Saliva	95	94% - 95%
Urine	98	97% - 98%
Serum	97	91% - 102%
Cell culture media	103	99% - 110%
Hep Plasma	115	113% - 117%

構成性 単物、 範囲 EDTA Plasma 108 107% - 106% 100% - 105% Cit piasma 102 100% - 105% 100% - 105% Mag Zott Mage 0ne step assay 102 100% - 105% Mag Zott Mage 55.000 7.55.000 7.55.000 7.55.000 Fill Add Mage 55.000 7.55.000				
Cit plasma 102 100% - 105% 检测时间 th.30m 年期 文法参理 One step assay 神展反应性 学長法 : Human 不与反 法: Cow 广告報述 十 Manne FMMPRN ELSA KII (ab219631) is a single-wash 90 min sandwich ELSA designed for the quantitative measurement of EMMPRN protein in cell cuture supermatin, cit plasma, edia plasma, hep plasma, saliva, sariua, and urine. It uses our proprietary SimpleStep ELESA® technology cuantitative measurement of EMMPRN with 3.88 pg/mt sensitivity. SimpleStep ELSA® technology employs capture artibodies conjugated to an affinity tag that is recognized by the monochonal antibody used to cost our SimpleStep ELESA® plates. This approach to sandwich ELESA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. See the SimpleStep ELESA® protocol summary in the image section for further details. Our SimpleStep ELESA® technology provides several benefits: - Single-wash protocol reduces assay time to 90 minutes or less - High sensitivity, specificity and reproducibility from superior antibodies - ELSA® microplate (reduced assays) is available to use as an alternative to the 96-wells plate breakable into 12 x 8 wells strips Kifi Editoreplate provided with SimpleStep ELESA® its. CO147 is a 363-amino acid protein encoded by the gene BSG. EMMPRN is a member of the immurroglobin superfamily, and targets the monocomologiate transporters SLC16A3, and SLC16A4 to the plasma membrare. EMMPRN is the determinant for the		样品类型	平均%	范围
依据时间 1h 30m 交装参録 Cne step assay PS反应性 クレー クレー マタン マッ マッン		EDTA Plasma	108	107% - 109%
文学分数 One step assay 种属反应性 与反应: Human 不与反应: Cow 产晶截差 Human EMMPRN ELSA Kit (ab219631) is a single-wash 90 min sandwich ELSA designed for the quantitative measurement of EMMPRN protein in cell culture supernatant, cit plasma, edfa plasma, hep plasma, saliva, serum, and urine. It uses our proprietary SimpleStep ELISA® technology. Quantitate Human EMMPRN with 3.88 pg/ml sensitivity. SimpleStep ELISA® technology employs capture antibodies conjugated to an affinity tag that is recognized by the monoclonal antibody used to coat our SimpleStep ELISA® protocol summary in the image section for further details. Our SimpleStep ELISA® protocol summary in the image section for further details. Our SimpleStep ELISA® protocol summary in the image section for further details. Our SimpleStep ELISA® protocol summary in the image section for further details. Our SimpleStep ELISA® protocol summary in the image section for further details. Our SimpleStep ELISA® protocol summary in the image section for further details. Our SimpleStep ELISA® protocol summary in the image section for further details. Our SimpleStep ELISA® increases - High sensitivity, specificity and reproducibility from superior antibodies - Fully validated in biological samples - SimpleStep ELISA® microplate (ab203359) is available to use as an alternative to the 96-well microplate provided with SimpleStep ELISA® kits. 说明 Extracelular matrix metalloproteinase inducer (EMMPRIN), also known as Basigin (BSQ), and CD147 is a 363-amino acid protein encoded by the gene BSG. EMMPRIN is an ember of the immunoglobin superfamily, and targets the monocarboxylate transporters SLC161A1, SLC16A3, and SLC16A8 to the plasma membrane. EMMPRIN is the determinant of the Ox blood group system, and has been demonstrated to be a receptor on red blood cells for the mal		Cit plasma	102	100% - 105%
特異反应性 与反应: Human 不与反应: Cow 产品繁建 Human EMMPRIN ELSA Kit (ab219631) is a single-wash 90 min sandwich ELISA designed for the quantitative measurement of EMMPRIN protein in cell culture supermatant, cit plasma, edta plasma, hep plasma, salva, serum, and urine. It uses our proprietary SimpleStep ELISA® technology. Quantitate Human EMMPRIN with 3.88 pg/ml sensitivity. SimpleStep ELISA® technology employs capture antibodies conjugated to an affinity tag that is recognized by the monocional antibody used to coat our SimpleStep ELISA® plates. This approach to sandwich ELSA allows the formation of the antibody-malyte sandwich complex in a single step, significantly reducing assay time. See the SimpleStep ELISA® plates. This approach to sandwich ELSA allows the formation of the antibody-malyte sandwich complex in a single step, significantly reducing assay time. See the SimpleStep ELISA® plateol summary in the image section for further details. Our SimpleStep ELISA® incode summary in the image section for further details. Our SimpleStep ELISA® into a set an alternative to the 96-wells plate breakable into 12 x 8 wells strips XBI A 344-well SimpleStep ELISA® incode (<u>bMDRPRN</u>), also known as Basigin (BSG), and CD147 is a 353-amin a di protein encoded by the gene BSG. EMMPRIN is a member of the immunoglobin superfamily, and targets the monocatroxylate transporters SLC16A1, SLC16A3, and SLC16A8 to the plasma membrane. EMMPRIN also has several ligands including system, and has been demonstrated to be a receptor on red blood cells for the malaria parasite, <i>Plasmodium falciparum</i> . In addition to its metalloproteirase-inducing ability, EMMPRIN is thought to regulate several other thactions, including spermatogenesis, embryo implantation, neural network formation, and turnor progression. EMMPRIN also has several ligands including cyclophilin proteins, caveolin-1	检测时间	1h 30m		
学品標述 Human EMMPRIN ELISA Kit (ab219631) is a single-wash 90 min sandwich ELISA designed for the quantitative measurement of EMMPRIN protein in cell cuture supernatant, cit plasma, edta plasma, hep plasma, salva, serum, and urine. It uses our proprietary SimpleStep ELISA® technology. Quantitate Human EMMPRIN with 3.88 pg/ml sensitivity. SimpleStep ELISA® technology employs capture antibodies conjugated to an affinity tag that is recognized by the monocional antibody used to coat our SimpleStep ELISA® plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. See the SimpleStep ELISA® protocol summary in the image section for further details. Our SimpleStep ELISA® protocol summary in the image section for further details. Our SimpleStep ELISA® protocol summary in the image section for further details. Our SimpleStep ELISA® incomes an alternative to the 96-well microplate in biological samples A 394-well SimpleStep ELISA® into the addition of the antibody-analyte sandwich et under the section of the interoplate into 12 x 8 wells strips X394 A 394-well SimpleStep ELISA® interoplate (ab203359) is available to use as an alternative to the 96-well microplate provided with SimpleStep ELISA® kits. X397 Extracellular matrix metalloproteinase inducer (EMMPRN) also known as Basigin (BSG), and CD147 is a 363-amino add protein encoded by the gene BSG. EMMPRN is a member of the immunoglobin superfamily, and targets the monocatoxytate transporters SLC16A1, SLC16A3, and SLC16A3 to the plasma membrane. EMMPRN is the determinant for the ∞ bloog qroup system, and has been demonstrate to be a receptor on reblood cells for the malaria parasite, <i>Plasmodium falciparum</i> . In addition to its metalloproteinase-inducing ability, EMM	实验步骤	One step assay		
the quantitative measurement of EMMPRN protein in cell culture supermatant, cit plasma, edia plasma, hep plasma, saliva, serum, and urine. It uses our proprietary SimpleStep ELISA® technology. Quantitate Human EMMPRIN with 3.88 pg/ml sensitivity. SimpleStep ELISA® technology employs capture antibodies conjugated to an affinity tag that is recognized by the monoclonal antibody used to coat our SimpleStep ELISA® plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. See the SimpleStep ELISA® protocol summary in the image section for further details. Our SimpleStep ELISA® technology provides several benefits: - Single-wash protocol reduces assay time to 90 minutes or less - High sensitivity, specificity and reproducibility from superior antibodies - Fully validated in biological samples - 96-wells plate breakable into 12 x 8 wells strips A 384-well SimpleStep ELISA® microplate (ab203359) is available to use as an alternative to the 96-well microplate provided with SimpleStep ELISA® kits. IXIII EXtracellular matrix metalloproteinase inducer (EMMPRIN), also known as Basigin (BSC), and CD147 is a 363-amino acid protein encoded by the gene BSG. EMMPRIN is a member of the immunoglobin superfamily, and targets the monocarboxylate transporters SLC16A1, SLC16A3, and SLC16A8 to the plasma membrane. EMMPRIN is the determinant for the Ox blood group system, and has been demonstrated to be a receptor on red blood cells for the malaria parasite, <i>Plasmodium falciparum</i> . In addition to its metalloproteinase-inducing ability, EMMPRIN is thought to regulate several other functions, including spermatogenesis, embryo implantation, neural network formation, and tumor progression. EMMPRIN also has several ligands including cyclophilin proteins, caveolin-1, and integrins. Pre-coated microplate (12 x 8 well strips) Etsiz	种属反应性			
96-well microplate provided with SimpleStep ELISA® kits.说明Extracellular matrix metalloproteinase inducer (EMMPRIN), also known as Basigin (BSG), and CD147 is a 363-amino acid protein encoded by the gene BSG. EMMPRIN is a member of the immunoglobin superfamily, and targets the monocarboxylate transporters SLC16A1, SLC16A3, and SLC16A8 to the plasma membrane. EMMPRIN is the determinant for the Ox blood group system, and has been demonstrated to be a receptor on red blood cells for the malaria parasite, <i>Plasmodium falciparum.</i> In addition to its metalloproteinase-inducing ability, EMMPRIN is thought to regulate several other functions, including spermatogenesis, embryo implantation, neural network formation, and tumor progression. EMMPRIN also has several ligands including cyclophilin proteins, caveolin-1, and integrins.平合Pre-coated microplate (12 x 8 well strips)性能存放说明Store at +4°C. Please refer to protocols.组件1x 96 tests	产品概述	the quantitative measurement of EMMPRIN prot plasma, hep plasma, saliva, serum, and urine. It technology. Quantitate Human EMMPRIN with 3 SimpleStep ELISA® technology employs captur recognized by the monoclonal antibody used to approach to sandwich ELISA allows the formation single step, significantly reducing assay time. So the image section for further details. Our Simple benefits: - Single-wash protocol reduces assay time - High sensitivity, specificity and reproducito - Fully validated in biological samples	to 90 minutes or les	ernatant, cit plasma, edta y SimpleStep ELISA® ated to an affinity tag that is o ELISA® plates. This halyte sandwich complex in a ELISA® protocol summary in ology provides several
CD 147 is a 363-amino acid protein encoded by the gene BSG. EMMPRIN is a member of the immunoglobin superfamily, and targets the monocarboxylate transporters SLC16A1, SLC16A3, and SLC16A8 to the plasma membrane. EMMPRIN is the determinant for the Ok blood group system, and has been demonstrated to be a receptor on red blood cells for the malaria parasite, <i>Plasmodium falciparum</i> . In addition to its metalloproteinase-inducing ability, EMMPRIN is thought to regulate several other functions, including spermatogenesis, embryo implantation, neural network formation, and tumor progression. EMMPRIN also has several ligands including cyclophilin proteins, caveolin-1, and integrins.平台Pre-coated microplate (12 x 8 well strips)性能1 x 96 tests				to use as an alternative to the
性能 存放说明 Store at +4°C. Please refer to protocols. 组件 1 x 96 tests	说 明	CD147 is a 363-amino acid protein encoded by immunoglobin superfamily, and targets the more and SLC16A8 to the plasma membrane. EMMF system, and has been demonstrated to be a rec <i>Plasmodium falciparum</i> . In addition to its metal thought to regulate several other functions, include neural network formation, and tumor progression	y the gene BSG. EM ocarboxylate transpo PRIN is the determin ceptor on red blood o loproteinase-inducir ding spermatogenes	MPRIN is a member of the orters SLC16A1, SLC16A3, ant for the Oκ blood group cells for the malaria parasite, ng ability, EMMPRIN is sis, embryo implantation,
存放说明 Store at +4°C. Please refer to protocols. 组件 1 x 96 tests	平台	Pre-coated microplate (12 x 8 well strips)		
组件 1 x 96 tests	性能			
	存放说明	Store at +4°C. Please refer to protocols.		
10X Human EMMPRIN Capture Antibody 1 x 600µl	组 件			1 x 96 tests
	10X Human EMMPRIN Capture Ant	ibody		1 x 600µl

组件	1 x 96 tests
10X Human EMMPRIN Detector Antibody	1 x 600µl
10X Wash Buffer PT (ab206977)	1 x 20ml
Antibody Diluent 4BI	1 x 6ml
Human EMMPRIN Lyophilized Recombinant Protein	2 vials
Plate Seals	1 unit
Sample Diluent 50BS	1 x 20ml
Sample Diluent NS (ab193972)	1 x 50ml
SimpleStep Pre-Coated 96-Well Microplate (ab206978)	1 unit
Stop Solution	1 x 12ml
TMB Development Solution	1 x 12ml

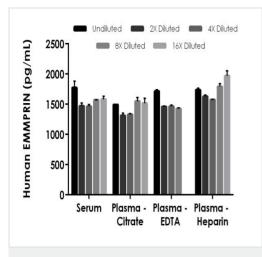
功能	Plays pivotal roles in spermatogenesis, embryo implantation, neural network formation and tumor progression. Stimulates adjacent fibroblasts to produce matrix metalloproteinases (MMPS). May target monocarboxylate transporters SLC16A1, SLC16A3 and SLC16A8 to plasma membranes of retinal pigment epithelium and neural retina. Seems to be a receptor for oligomannosidic glycans. In vitro, promotes outgrowth of astrocytic processes.
组织 特异性	Present only in vascular endothelium in non-neoplastic regions of the brain, whereas it is present in tumor cells but not in proliferating blood vessels in malignant gliomas.
序列相似性	Contains 1 lg-like C2-type (immunoglobulin-like) domain. Contains 1 lg-like V-type (immunoglobulin-like) domain.
翻 译后 修 饰	N-glycosylated.
细 胞定位	Cell membrane. Melanosome. Colocalizes with SLC16A1 and SLC16A8 (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

图片



Background-subtracted data values (mean +/- SD) are graphed.

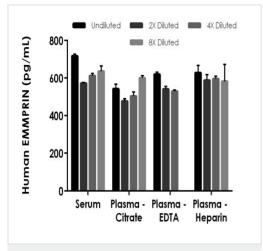
Example of human EMMPRIN standard curve in Sample Diluent NS.



Interpolated concentrations of spiked EMMPRIN in human serum and plasma samples.

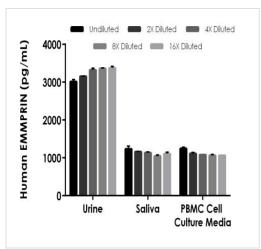
Background-subtracted data values (mean +/- SD) are graphed.

The concentrations of EMMPRIN were measured in duplicates, interpolated from the EMMPRIN standard curves and corrected for sample dilution. Undiluted samples are as follows: serum 50%, plasma (citrate) 50%, plasma (EDTA) 50%, and plasma (heparin) 50%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean EMMPRIN concentration was determined to be 1,572 pg/mL in neat serum, 1,440 pg/mL in neat plasma (citrate), 1,516 pg/mL in neat plasma (EDTA), and 1,740 pg/mL in neat plasma (heparin).

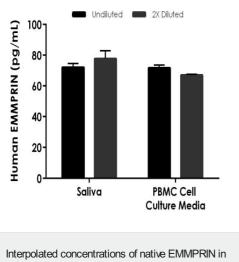


The concentrations of EMMPRIN were measured in duplicates, interpolated from the EMMPRIN standard curves and corrected for sample dilution. Undiluted samples are as follows: serum 50%, plasma (citrate) 50%, plasma (EDTA) 50%, and plasma (heparin) 50%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean EMMPRIN concentration was determined to be 634 pg/mL in neat serum, 531 pg/mL in neat plasma (citrate), 563 pg/mL in neat plasma (EDTA), and 599 pg/mL in neat plasma (heparin).

Interpolated concentrations of native EMMPRIN in human serum and plasma samples.

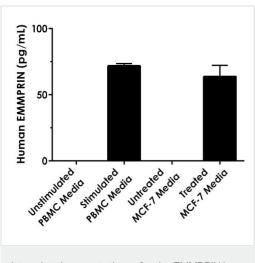


Interpolated concentrations of native EMMPRIN in human urine and spiked EMMPRIN in human saliva and PBMC stimulated cultured media. The concentrations of EMMPRIN were measured in duplicates, interpolated from the EMMPRIN standard curves and corrected for sample dilution. Undiluted samples are as follows: urine 50%, saliva 100%, and PBMC stimulated culture media 100%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean EMMPRIN concentration was determined to be 3,245 pg/mL in neat urine, 1,135 pg/mL in neat saliva, and 1,111 pg/mL in neat PBMC stimulated culture media.



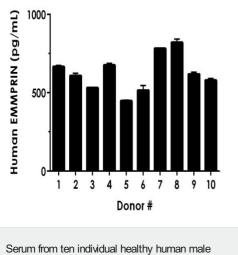
The concentrations of EMMPRIN were measured in duplicates, interpolated from the EMMPRIN standard curves and corrected for sample dilution. Undiluted samples are as follows: saliva 100% and PBMC stimulated culture media 100%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean EMMPRIN concentration was determined to be 69 pg/mL in neat saliva, and 75 pg/mL in neat PBMC stimulated culture media.

Interpolated concentrations of native EMMPRIN in human saliva and PBMC stimulated cultured media.



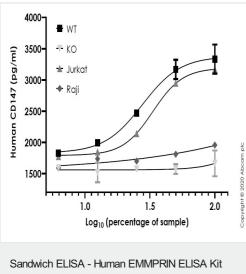
Interpolated concentrations of native EMMPRIN in human cell culture supernatant samples.

The concentrations of EMMPRIN were measured in duplicates, interpolated from the EMMPRIN standard curves and corrected for sample dilution. Undiluted samples are as follows: unstimulated PBMC media 100%, stimulated PBMC media 100%, untreated MCF-7 media 100%, and treated MCF-7 media 100%. The interpolated dilution factor corrected values are plotted (mean +/-SD, n=2). The mean EMMPRIN concentration was determined to be 72 pg/mL in neat stimulated PBMC media and 64 pg/mL in neat treated MCF-7 media. The unstimulated PBMC media and untreated MCF-7 media samples measured below the 7th point of the standard curve. PBMC media samples were cultured in RPMI media with 10% fetal bovine serum (unstimulated) for 24 hours and then stimulated for 48 hours with 1.5% PHAM. MCF-7 media samples were cultured in DMEM media with 10% fetal bovine serum (untreated) and then treated with 0.12 mM NEAA with 1 mM sodium pyruvate (treated) for 24 hours.



Interpolated dilution factor corrected values are plotted (mean +/-SD, n=2). The mean EMMPRIN concentration was determined to be 625 pg/mL with a range of 445- 836 pg/mL.

Serum from ten individual healthy human male donors was measured in duplicate.



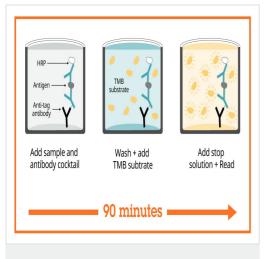
Human CD147 concentration was interpolated from the EMMPRIN (CD147) standard curve. Supernatants from cell culture samples were serially diluted and assessed by the Human EMMPRIN ELISA kit (ab219631). Wild-type and CD147 knockout A549 cells (**ab273748**) were assessed in duplicate (n=2); Jurkat and Raji cells were used as positive and negative controls respectively (n=1). Where samples were run in duplicate, data are represented as the mean and error bars represent standard deviation.

Sandwich ELISA - Human EMMPRIN ELISA Kit (ab219631)



Sandwich ELISA - Human EMMPRIN ELISA Kit (ab219631)

To learn more about the advantages of recombinant antibodies see **here**.



SimpleStep ELISA technology allows the formation of the antibodyantigen complex in one single step, reducing assay time to 90 minutes. Add samples or standards and antibody mix to wells all at once, incubate, wash, and add your final substrate. See protocol for a detailed step-by-step guide.

Sandwich ELISA - Human EMMPRIN ELISA Kit (ab219631)

	ore done with eStep ELISA
@	Easy to use Single-wash 90-minute protocol
$(\gamma\gamma)$	Flexible Matched antibody pairs available
\bigoplus	Precision antibodies High sensitivity, specificity and reproducibility
	Scalable Now in 10-pack and 384-well formats

Sandwich ELISA - Human EMMPRIN ELISA Kit

(ab219631)

To learn more about the advantages of SimpleStep $ELISA^{(\!\!8\!)}$ kits see <u>here</u>.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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