

Anti-Integrin alpha 5 antibody [EPR7854] ab150361

敲除验证
重组
RabMAb

★★★★★
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概述

产品名称	Anti-Integrin alpha 5抗体[EPR7854]
描述	兔单克隆抗体[EPR7854] to Integrin alpha 5
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide within Human Integrin alpha 5 aa 1000-1100 (C terminal). The exact sequence is proprietary.
阳性对照	WB: Human bladder, HT-1080, HeLa, U937, NIH/3T3, MEF, C2C12, Rat-1, and Rat liver lysates. IHC-P: Human kidney, human cerebral cortex, mouse cerebral cortex, and rat cerebral cortex tissues. ICC/IF: U937, MCF7 and wild-type HAP1 cells. Flow Cyt (intra): HeLa cells. IP: HeLa cells.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR7854

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab150361于以下的经测试应用

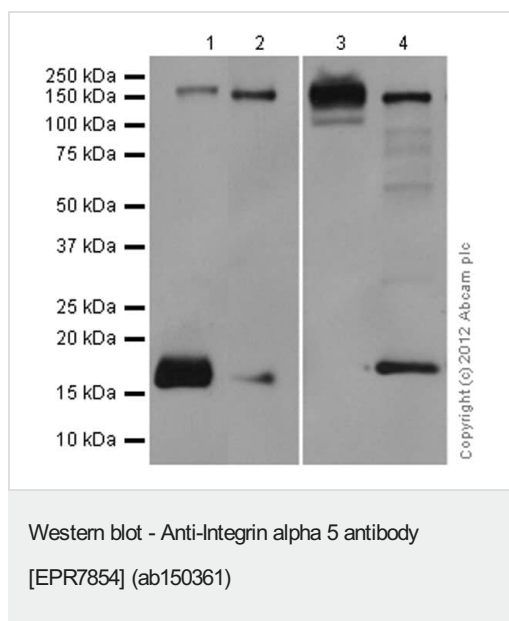
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/20. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. For unpurified use at 1/100 - 1/100.
WB	★★★★★ (6)	1/1000 - 1/10000. Detects a band of approximately 150 kDa (predicted molecular weight: 115 kDa).
IHC-P	★★★★★ (2)	1/400. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. For unpurified use at 1/100 - 1/250. See IHC antigen retrieval protocols
ICC/IF	★★★★★ (4)	1/50. For unpurified use at 1/250 - 1/500.
IP		1/10 - 1/100.

靶标

功能	Integrin alpha-5/beta-1 is a receptor for fibronectin and fibrinogen. It recognizes the sequence R-G-D in its ligands. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.
序列相似性	Belongs to the integrin alpha chain family. Contains 7 FG-GAP repeats.
细胞定位	Membrane.

图片



All lanes : Anti-Integrin alpha 5 antibody [EPR7854] (ab150361) at 1/2000 dilution (Unpurified)

Lane 1 : Human bladder tissue lysate

Lane 2 : HT-1080 (Human urinary bladder carcinoma cell line) whole cell lysates

Lane 3 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysates

Lane 4 : U937 (Human histiocytic lymphoma cell line) whole cell lysates

Lysates/proteins at 10 µg per lane.

Secondary

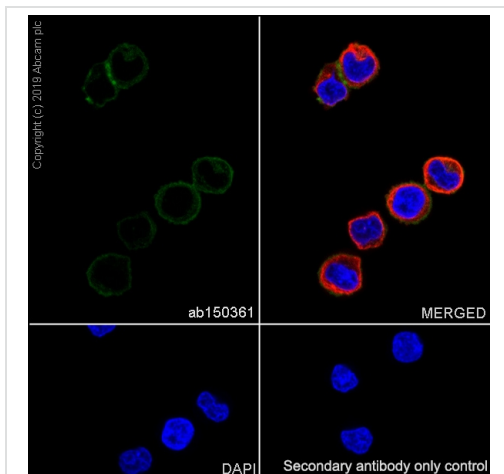
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 115 kDa

Observed band size : 19, 150 kDa

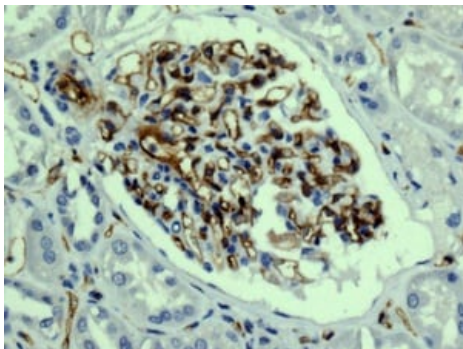
Exposure time : Lane 1-2: 1 minutes, Lane 3-4: 3 minutes

Blocking/Diluting buffer 5% NFDM/TBST



Immunocytochemistry/ Immunofluorescence - Anti-Integrin alpha 5 antibody [EPR7854] (ab150361)

Immunocytochemistry/ Immunofluorescence analysis of U937 (Human histiocytic lymphoma monocyte) cells labeling Integrin alpha 5 with purified ab150361 at 1:50 dilution (4.3 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Integrin alpha 5 antibody [EPR7854] (ab150361)

Immunohistochemical analysis of paraffin embedded Human kidney tissue labelling Integrin alpha 5 with unpurified ab150361 antibody at a dilution of 1/100.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunoprecipitation - Anti-Integrin alpha 5 antibody
[EPR7854] (ab150361)

ab150361 (Purified) at 1:20 dilution (1 µg) immunoprecipitating Integrin alpha 5 in HeLa whole cell lysate.

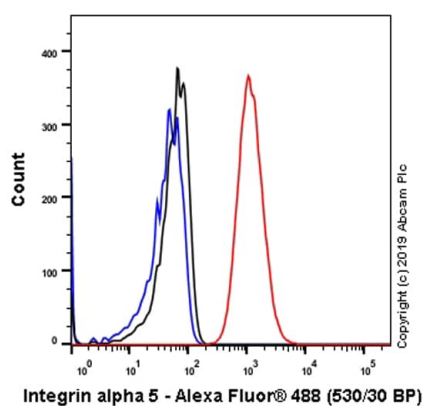
Lane 1 (input): HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate 10 µg

Lane 2 (+): ab150361 & HeLa whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab150361 in HeLa whole cell lysate

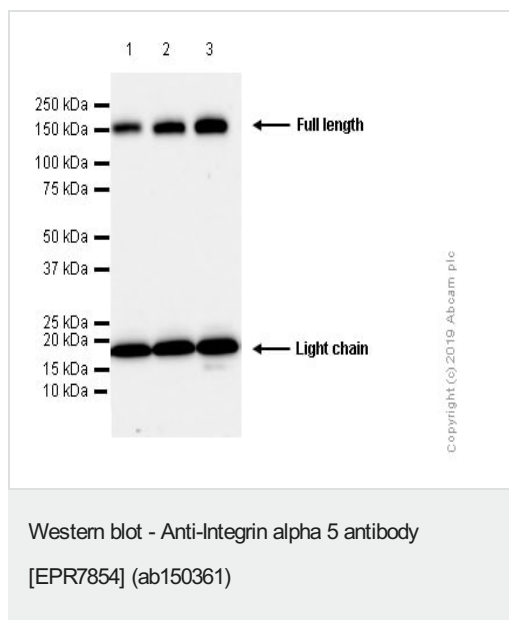
For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1:5000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.



Flow Cytometry (Intracellular) - Anti-Integrin alpha 5
antibody [EPR7854] (ab150361)

Intracellular Flow Cytometry analysis of HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling Integrin alpha 5 with purified ab150361 at 1/20 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



All lanes : Anti-Integrin alpha 5 antibody [EPR7854] (ab150361) at 1/1000 dilution (Purified)

Lane 1 : NIH/3T3 (Mouse embryo fibroblast cell line) whole cell lysates

Lane 2 : MEF (Mouse embryonic fibroblast cell line) whole cell lysates

Lane 3 : C2C12 (Mouse myoblast cell line) whole cell lysates

Lysates/proteins at 20 µg per lane.

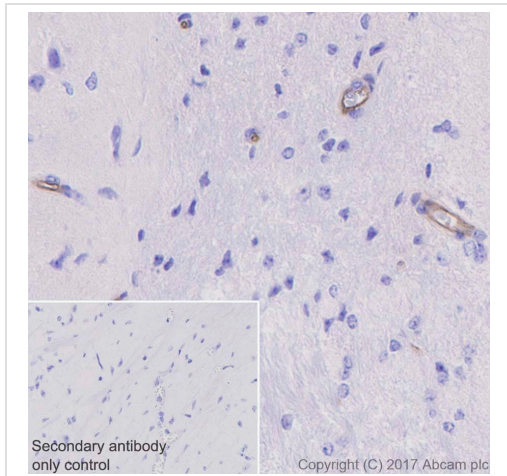
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

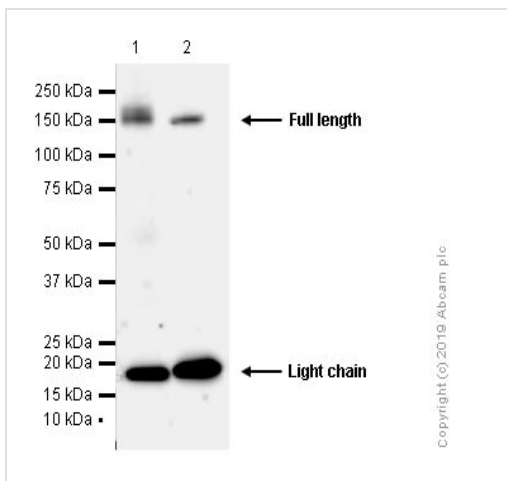
Predicted band size: 115 kDa

Observed band size: 150,19 kDa

The bands detected by ab150361 are consistent with what have been described in PMID: 22740495. Full length: 150kDa; Light chain: 19kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Integrin alpha 5 antibody [EPR7854] (ab150361)



Western blot - Anti-Integrin alpha 5 antibody [EPR7854] (ab150361)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse cerebral cortex tissue sections labeling Integrin alpha 5 with purified ab150361 at 1:400 dilution (0.54 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

All lanes : Anti-Integrin alpha 5 antibody [EPR7854] (ab150361) at 1/1000 dilution (Purified)

Lane 1 : Rat1 (Rat fibroblast cell line) whole cell lysates

Lane 2 : Rat liver lysates

Lysates/proteins at 20 µg per lane.

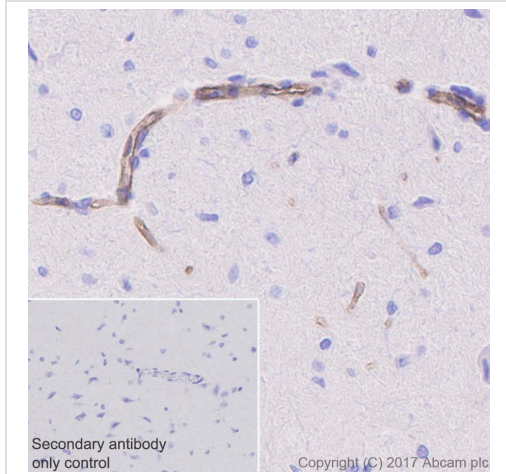
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 115 kDa

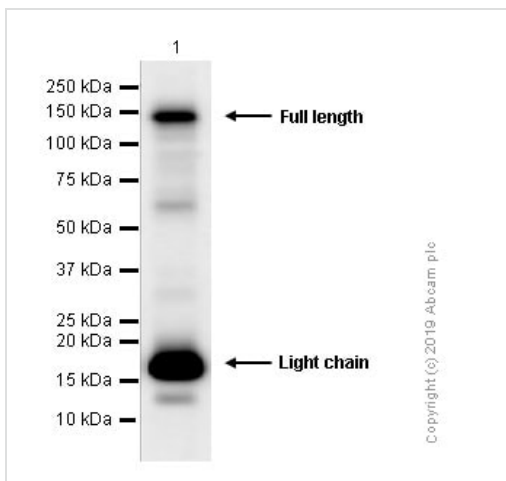
Observed band size: 150,19 kDa

The bands detected by ab150361 are consistent with what have been described in PMID: 22740495. Full length: 150kDa; Light chain: 19kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Integrin alpha 5 antibody [EPR7854] (ab150361)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat cerebral cortex tissue sections labeling Integrin alpha 5 with purified ab150361 at 1:400 dilution (0.54 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-Integrin alpha 5 antibody [EPR7854] (ab150361)

Anti-Integrin alpha 5 antibody [EPR7854] (ab150361) at 1/10000 dilution (Purified) + HT-1080 (Human fibrosarcoma cell line) whole cell lysates at 15 µg

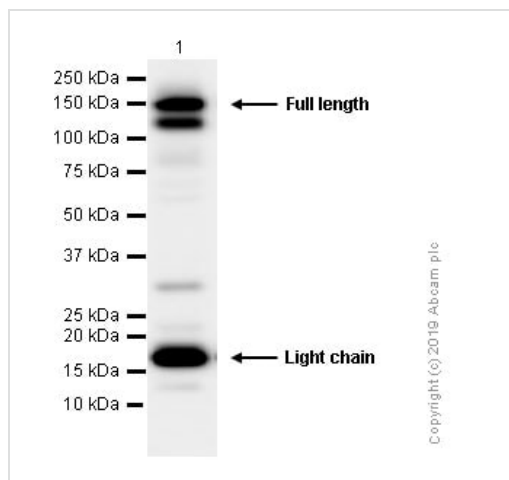
Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 115 kDa

Observed band size: 150,19 kDa

The bands detected by ab150361 are consistent with what have been described in PMID: 22740495. Full length: 150kDa; Light chain: 19kDa



Western blot - Anti-Integrin alpha 5 antibody
[EPR7854] (ab150361)

Anti-Integrin alpha 5 antibody [EPR7854] (ab150361) at 1/1000 dilution (Purified) + U937 (Human histiocytic lymphoma cell line) whole cell lysates at 15 µg

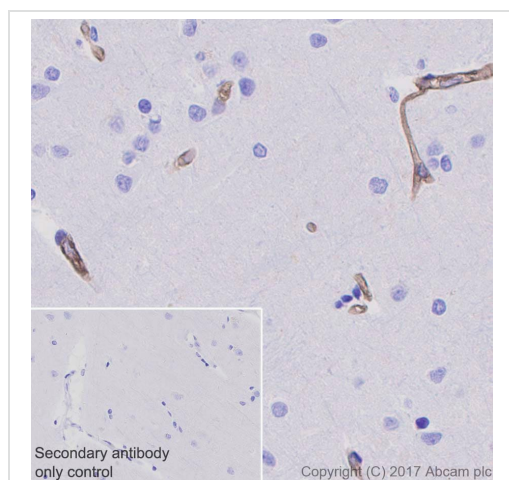
Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 115 kDa

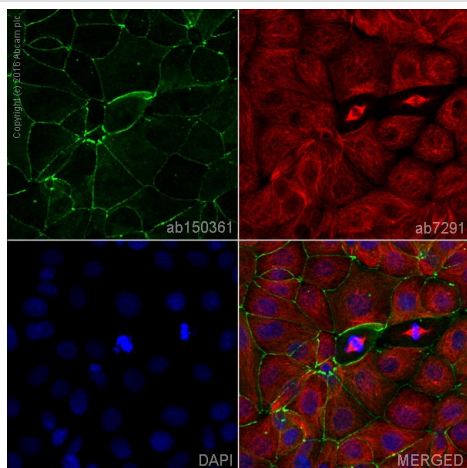
Observed band size: 150,19 kDa

The bands detected by ab150361 are consistent with what have been described in PMID: 22740495. Full length: 150kDa; Light chain: 19kDa



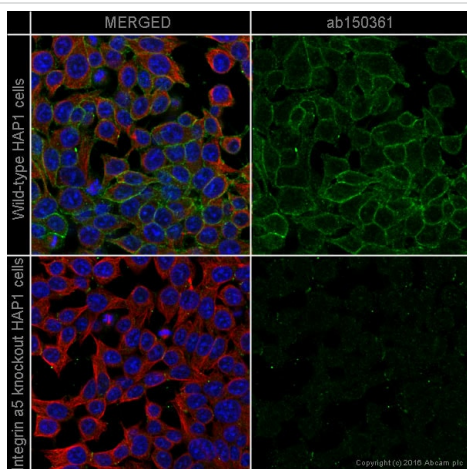
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Integrin alpha 5 antibody
[EPR7854] (ab150361)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cerebral cortex tissue sections labeling Integrin alpha 5 with purified ab150361 at 1:400 dilution (0.54 µg/ml). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



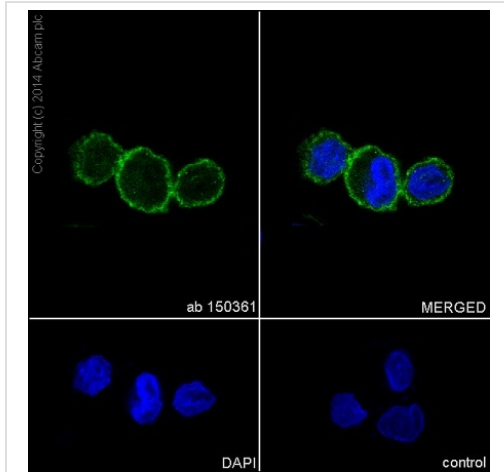
Immunocytochemistry/ Immunofluorescence - Anti-Integrin alpha 5 antibody [EPR7854] (ab150361)

ab150361 staining Integrin alpha 5 in MCF7 (Human breast adenocarcinoma cell line) cells. The cells were fixed with 100% methanol (5min), permeabilized with 0.1% Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with unpurified ab150361 at 1 µg/ml concentration and **ab7291** at 1 µg/ml concentration overnight at +4°C, followed by a further incubation at room temperature for 1h with a goat secondary antibody to Rabbit IgG (Alexa Fluor® 488) (**ab150081**) at 2 µg/ml (shown in green) and a goat secondary antibody to Mouse IgG (Alexa Fluor® 594) (**ab150120**) at 2 µg/ml (showed in pseudocolour red) . Nuclear DNA was labelled in blue with DAPI.



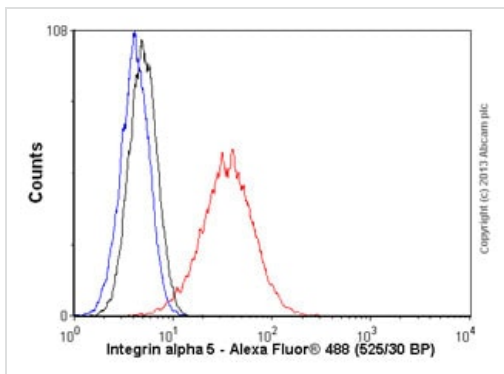
Immunocytochemistry/ Immunofluorescence - Anti-Integrin alpha 5 antibody [EPR7854] (ab150361)

unpurified ab150361 staining Integrin alpha 5 in wild-type HAP1 cells (top panel) and ITGA5 knockout HAP1 cells (bottom panel). The cells were fixed with 100% methanol (5min), permeabilized with 0.1% Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with ab150361 at 1/250 dilution and **ab7291** at 1 µg/ml concentration overnight at +4°C, followed by a further incubation at room temperature for 1h with a goat secondary antibody to Rabbit IgG (Alexa Fluor® 488) (**ab150081**) at 2 µg/ml (shown in green) and a goat secondary antibody to Mouse IgG (Alexa Fluor® 594) (**ab150120**) at 2 µg/ml (showed in pseudocolour red) . Nuclear DNA was labelled in blue with DAPI.



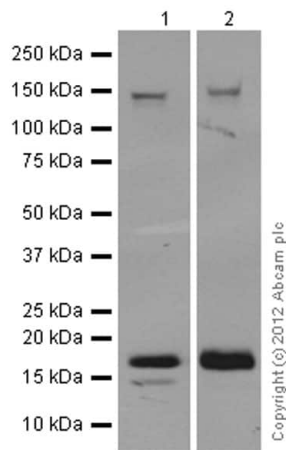
Immunocytochemistry/ Immunofluorescence - Anti-Integrin alpha 5 antibody [EPR7854] (ab150361)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U937 (Human histiocytic lymphoma cell line) cells labeling Integrin alpha 5 with unpurified ab150361 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor 488) (**ab150077**) secondary antibody at 1/400 dilution (green). Confocal image showing mainly membrane staining on U937 cell line. The nuclear counterstain is DAPI (blue).



Flow Cytometry (Intracellular) - Anti-Integrin alpha 5 antibody [EPR7854] (ab150361)

Overlay histogram showing HeLa cells stained with unpurified ab150361 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab150361, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was goat anti-rabbit Alexa Fluor 488 IgG (H&L) (**ab150077**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1 µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in HeLa cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Western blot - Anti-Integrin alpha 5 antibody
[EPR7854] (ab150361)

All lanes : Anti-Integrin alpha 5 antibody [EPR7854] (ab150361) at 1/2000 dilution (Unpurified)

Lane 1 : Mouse heart tissue lysate

Lane 2 : Rat heart tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 115 kDa

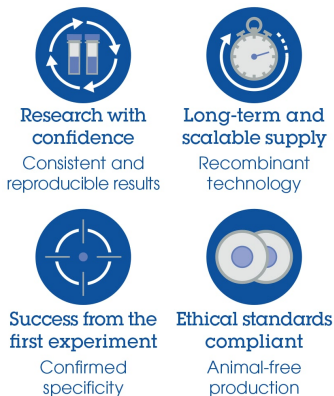
Exposure time: 3 minutes

Observed band size : 19, 150 kDa

Exposure time : 3 minutes

Blocking/Diluting buffer 5% NFDM/TBST

Why choose a recombinant antibody?



Anti-Integrin alpha 5 antibody [EPR7854] (ab150361)

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