

Recombinant human LATS1/WARTS protein ab125612

1 References 4 图像

描述	
产品名称	重组人LATS1/WARTS蛋白
生物活性	The specific activity of ab125612 was determined to be 1.4 nmol/mg/min.
纯度	= 70 % Affinity purified. Purified by affinity chromatography
表达系统	Baculovirus infected Sf9 cells
Accession	<u>O95835</u>
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
序列	KEDESEKSYE NVDSGDKEKK QITTSPITVR KNKKDEERRE SRIQSYSPQA FKFFMEQHVE NVLKSHQQRL HRKKQLENEM MRVGLSQDAQ DQMRKMLCQK ESNYIRLKRA KMDKSMFVKI KTLGIGAFGE VCLARKVDTK ALYATKTLRK KDVLLRNQVA HVKAERDILA EADNEWVVR YYSFQDKDNL YFVM DYIPGG DMMSLLIRMG IFPESLARFY IAELTCAVES VHKMGFIHRD IKPDNILIDR DGHIKLTDFG LCTGFRWTHD SKYYQSGDHP RQDSMDFSNE WGD PSSCRCG DRLKPLERRA ARQHQRCLAH SLVGTPNYIA PEVLLRTGYT QLCDWWSVGV ILFEMLVGQP PFLAQTPLET QMKVINWQTS LHIPPQAKLS PEASDLIIKL CRGPEDRLGK NGADEIKAHP FFKTIDFSSD LRQQSASYIP KITHPTDTSN FDPVDPDKLW SDDNEEENVN DTLNGWYKNG KHPEHAFYEF TFRRFFDDNG YPYNYPKPIE YEYINSQGSE QQSDEDDQNT GSEIKNRDLV YV
预测分子量	95 kDa including tags
氨基酸	589 to 1130
技术指标	

Our **Abpromise guarantee** covers the use of **ab125612** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

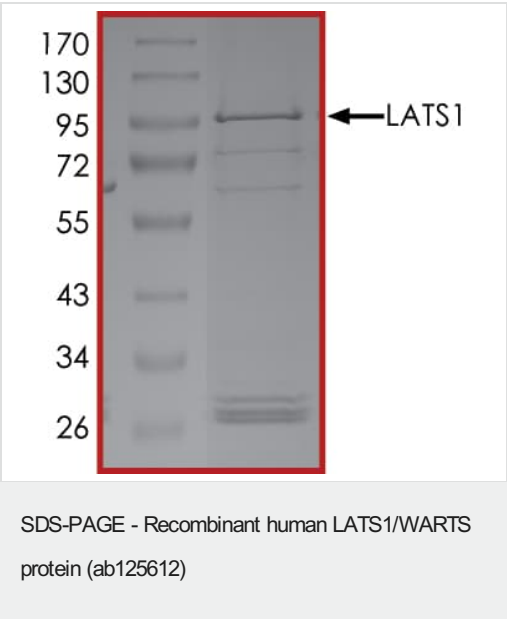
应用	Western blot
	Functional Studies
	SDS-PAGE
形式	Liquid
补充说明	ab204882 (SGK peptide) can be utilized as a substrate for assessing kinase activity
	This product was previously labelled as LATS1

制备和贮存

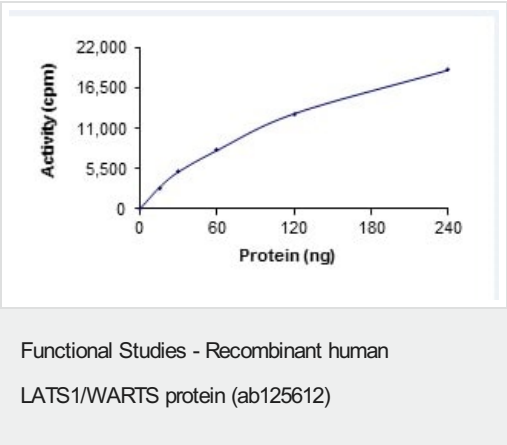
稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
	pH: 7.50
	Constituents: 0.31% Glutathione, 0.002% PMSF, 0.004% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol (glycerin, glycerine), 0.88% Sodium chloride
	This product is an active protein and may elicit a biological response in vivo, handle with caution.

常规信息

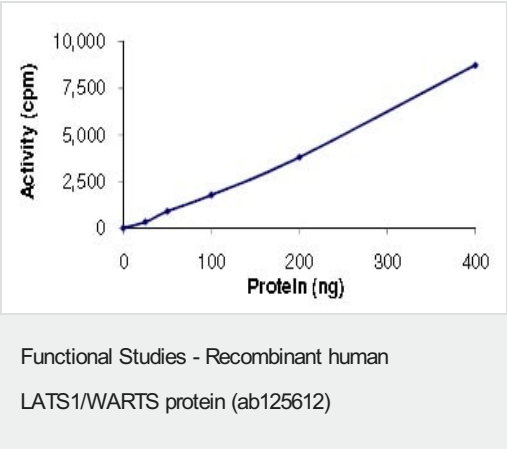
功能	Negative regulator of YAP1 in the Hippo signaling pathway that plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. The core of this pathway is composed of a kinase cascade wherein STK3/MST2 and STK4/MST1, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and inactivates YAP1 oncoprotein and WWTR1/TAZ. Phosphorylation of YAP1 by LATS1 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. Acts as a tumor suppressor which plays a critical role in maintenance of ploidy through its actions in both mitotic progression and the G1 tetraploidy checkpoint. Negatively regulates G2/M transition by down-regulating CDK1 kinase activity. Involved in the control of p53 expression. Affects cytokinesis by regulating actin polymerization through negative modulation of LIMK1. May also play a role in endocrine function.
组织特异性	Expressed in all adult tissues examined except for lung and kidney.
序列相似性	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family.
	Contains 1 AGC-kinase C-terminal domain.
	Contains 1 protein kinase domain.
	Contains 1 UBA domain.
翻译后修饰	Autophosphorylated and phosphorylated during M-phase of the cell cycle. Phosphorylated by STK3/MST2 at Ser-909 and Thr-1079, which results in its activation. Phosphorylation at Ser-464 by NUA1 and NUA2 leads to decreased protein level and is required to regulate cellular senescence and cellular ploidy.
细胞定位	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Localizes to the centrosomes throughout interphase but migrates to the mitotic apparatus, including spindle pole bodies, mitotic spindle, and midbody, during mitosis.



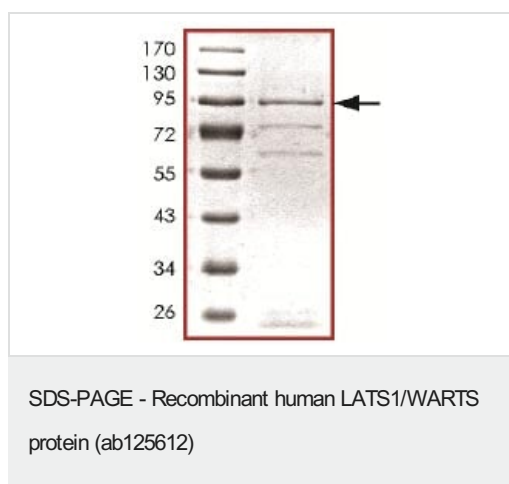
SDS PAGE analysis of ab125612



The specific activity of LATS1/WARTS (ab125612) was determined to be 1.6 nmol /min/mg as per activity assay protocol.



The specific activity of ab125612 was determined to be 1.4 nmol/mg/min by Kinase Assay.



SDS-PAGE analysis of ab125612.

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