

Rabbit Anti-phospho-LATS1+LATS2 (Thr1079 +Thr1041) antibody

SL7913R

Product Name:	phospho-LATS1+LATS2 (Thr1079 +Thr1041)
Chinese Name:	磷酸化Tumour抑制基因LATS1/LATS2抗体
Alias:	LATS1 +LATS2 (phospho T1079 + T1041); Serine/threonine protein kinase LATS2; KPM; Large tumor supressor, homolog 1; LATS, large tumor suppressor, homolog 1 (Drosophila); LATS, large tumor suppressor, homolog 2 (Drosophila); LATS1 +LATS2 (phospho T1079 + T1041); p-LATS1 +LATS2(Thr1079 +Thr1041); RGD1564085; Serine/threonine protein kinase LATS1; WARTS; WARTS protein kinase; wts; 4932411G09Rik; AV277261; AW208599; AW228608; FLJ13161; LATS1_HUMAN.
文献引用	Specific References(1) SL7913R has been referenced in 1 publications.
	[IF=3.65]Grijalva, James, et al. "Dynamic Alterations in Hippo Signaling Pathway and
Pub	YAP Activation during Liver Regeneration." American Journal of Physiology-
:	Gastrointestinal and Liver Physiology (2014).WB;Rat.
	PubMed:24875096
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	
	Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit,
Applications:	5
	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair)not yet tested in other applications.
Applications: Molecular weight:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair)not yet tested in other applications.optimal dilutions/concentrations should be determined by the end user.
Applications:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair)not yet tested in other applications.optimal dilutions/concentrations should be determined by the end user.124kDa
Applications: Molecular weight: Cellular localization:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit, WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. 124kDa cytoplasmic

	phosphorylation site of Thr1079:EF(P-T)FR
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 MST1/MST2, 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 LATS2 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 centrosome duplication, maintenance of mitotic fidelity and genomic stability. Negatively regulates G1/S transition by down-regulating cyclin E/CDK2 kinase activity. Negative regulator of the androgen receptor. Function: 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. Phosphorylates most 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. Subunit: Complexes with CDK1 in early mitosis. LATS1-associated CDK1 has no mitotic cyclin partner and no apparent kinase activity. Binds phosphorylated ZYX,

interphase but migrates to the mitotic apparatus, including spindle pole bodies, mitotic spindle, and midbody, during mitosis.

Tissue Specificity:

Expressed in all adult tissues examined except for lung and kidney.

Post-translational modifications:

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. Phosphorylated upon DNA damage, probably by ATM or ATR. Phosphorylation at Ser-464 by NUAK1 and NUAK2 leads to decreased protein level and is required to regulate cellular senescence and cellular ploidy.

Similarity:

Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. Contains 1 AGC-kinase C-terminal domain. Contains 1 protein kinase domain. 1010ioter Contains 1 UBA domain.

SWISS: 095835

Gene ID: 26524

Database links:

Entrez Gene: 26524Human

Entrez Gene: 9113Human

Entrez Gene: 16798Mouse

Entrez Gene: 50523Mouse

Omim: 603473Human

Omim: 604861Human

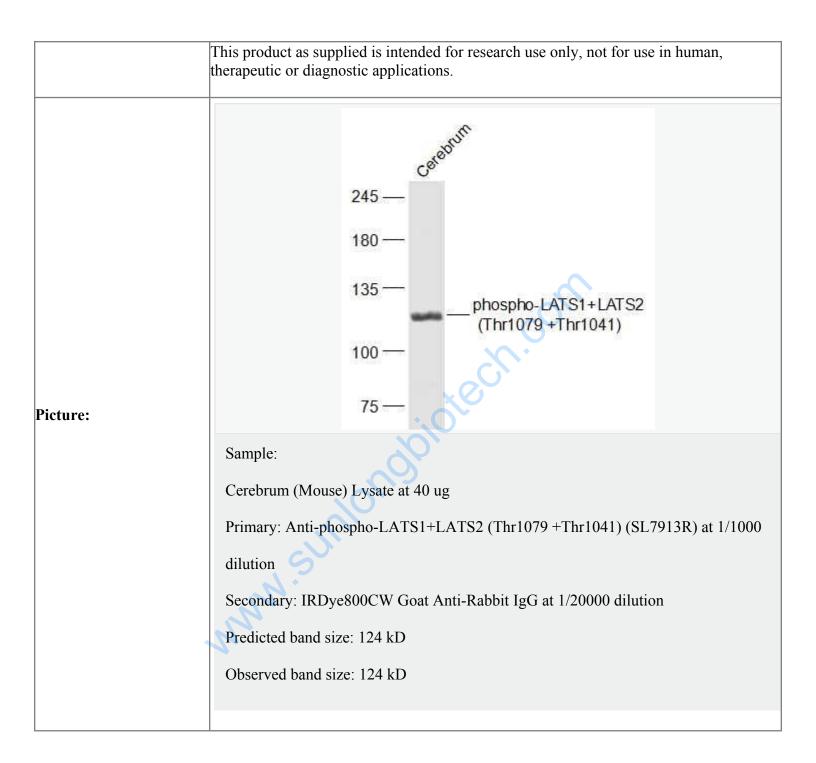
SwissProt: O95835Human

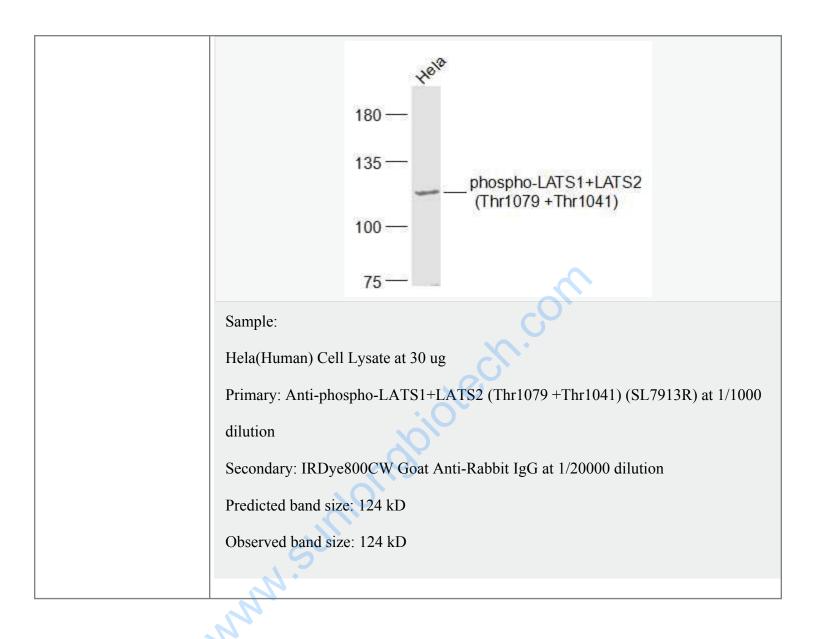
SwissProt: Q9NRM7Human

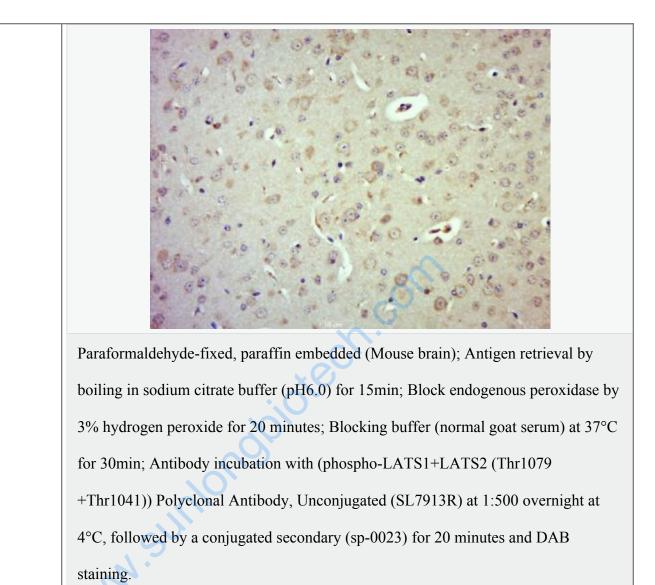
SwissProt: Q7TSJ6Mouse

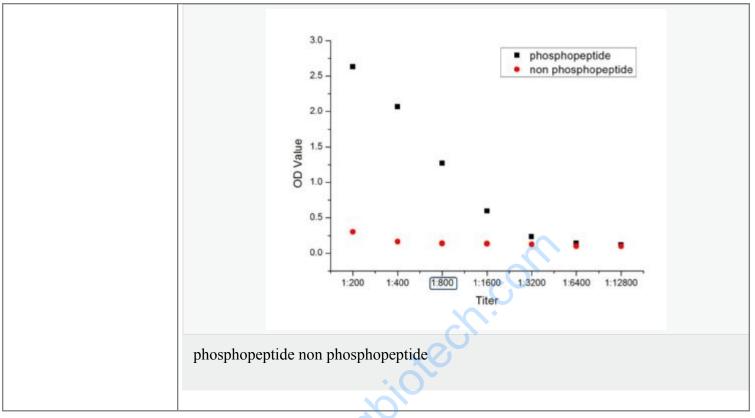
SwissProt: Q8BYR2Mouse

Important Note:









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