

Rabbit anti-Mouse Lats2 Polyclonal Antibody | anti-Lats2 antibody

Mouse Lats2 Antibody (C-term)

CATALOG # AAA286545	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS ELISA, Western Blot
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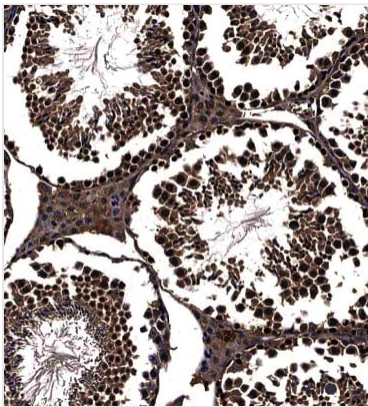
PRODUCT SYNONYMS

Lats2; Polyclonal Antibody; Mouse Lats2 Antibody (C-term); Serine/threonine-protein kinase LATS2; Kinase phosphorylated during mitosis protein; Large tumor suppressor homolog 2; Serine/threonine-protein kinase kpm; Lats2 {ECO:0000312|EMBL:AAH530281}; anti-Lats2 antibody

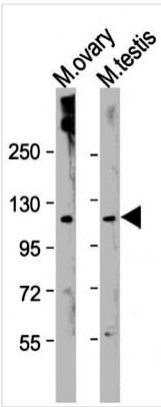
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This Mouse Lats2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1000-1027 amino acids from the C-terminal region of mouse Lats2.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	1000-1027
Sequence Length	1042
Applicable Applications for anti-Lats2 antibody	ELISA, WB (Western Blot)
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. 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. Phosphorylates SNAI1 in the nucleus leading to its nuclear retention and stabilization, which enhances its epithelial-mesenchymal transition and tumor cell invasion/migration activities. This tumor-promoting activity is independent of its effects upon YAP1 or WWTR1/TAZ (By similarity).
Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm. Cytoplasm, cytoskeleton, spindle pole. Nucleus. Note=Colocalizes with AURKA at the centrosomes during interphase, early prophase and cytokinesis (By similarity). Migrates to the spindle poles during mitosis, and to the midbody during cytokinesis. Translocates to the nucleus upon mitotic stress by nocodazole treatment (By similarity)
Tissue Location	Expressed at high levels in ovary and testis and at lower levels in all other tissues examined.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohiostchemistry)
Immunohistochemical analysis of AAA286545 on paraffin-embedded Mouse testis tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



WB (Western Blot)
All lanes : Anti-Mouse Lats2 Antibody(C-term) at 1:2000 dilution Lane 1: Mouse ovary tissue lysate Lane 2: Mouse testis tissue lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 115 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-Lats2 antibody	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 (By similarity).
Product Categories/Family for anti-Lats2 antibody	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	68448549
NCBI GeneID	50523
NCBI Accession #	NP_056586.2
NCBI GenBank Nucleotide #	NM_015771.2
UniProt Accession #	Q7TSJ6; Q8CDJ4; Q9JMI3
Molecular Weight	115472
NCBI Official Full Name	serine/threonine-protein kinase LATS2 isoform 1
NCBI Official Synonym Full Names	large tumor suppressor 2
NCBI Official Symbol	Lats2
NCBI Official Synonym Symbols	AV277261; AW228608; 4932411G09Rik
NCBI Protein Information	serine/threonine-protein kinase LATS2
UniProt Protein Name	Serine/threonine-protein kinase LATS2
UniProt Gene Name	Lats2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/lats2-antibody-western-blot-elisa/286545>