

Mouse Lats2 Antibody(C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19422b

Specification

Mouse Lats2 Antibody(C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q7TSJ6
Other Accession	NP_056586.2
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	1000-1027

Mouse Lats2 Antibody(C-term) - Additional Information

Gene ID 50523

Other Names

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}

Target/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.

Dilution

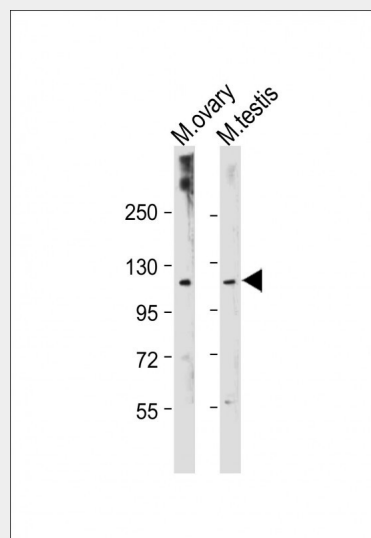
WB~~1:2000
IHC-P~~1:100

Format

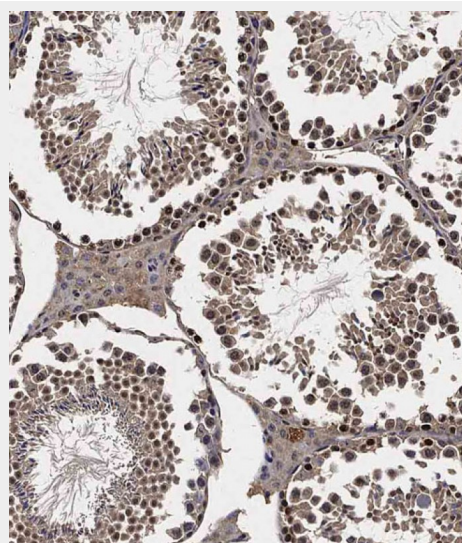
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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.



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 µg 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.



Immunohistochemical analysis of AP19422B on paraffin-embedded Mouse testis tissue. Tissue was fixed with formaldehyde at room

Precautions

Mouse Lats2 Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Lats2 Antibody(C-term) - Protein Information**Name** Lats2

{ECO:0000312|EMBL:AAH53028.1}

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)

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.

Mouse Lats2 Antibody(C-term) - Background

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).

Mouse Lats2 Antibody(C-term) - References

Zhang, N., et al. Dev. Cell 19(1):27-38(2010)
Oh, S., et al. Mol. Cell. Biol. 29(23):6309-6320(2009)
Quina, L.A., et al. J. Neurosci. 29(45):14309-14322(2009)
Nishioka, N., et al. Dev. Cell 16(3):398-410(2009)
Matsui, Y., et al. Circ. Res. 103(11):1309-1318(2008)

Tissue Location

Expressed at high levels in ovary and testis
and at lower levels in all other tissues
examined

Mouse Lats2 Antibody(C-term) - Protocols

Provided below are standard protocols that you
may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)