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MOB4A Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP7031b

Specification

MOB4A Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q7L9L4

MOB4A Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 92597

Other Names
MOB kinase activator 1B, Mob1 homolog 1A, Mob1A, Mob1B, Mps one binder kinase activator-like 1A, MOB1B, MOB4A, MOBKL1A

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7031b was selected from the C-term region of human MOB4A. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MOB4A Antibody (C-term) Blocking Peptide - Protein Information

Name MOB1B

Synonyms MOB4A, MOBKL1A

Function
Activator of LATS1/2 in the Hippo signaling pathway which 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 LATS1/2 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration. Stimulates the kinase activity of STK38L.

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Cellular Location
Cytoplasm. Nucleus

Tissue Location
Adrenal gland, bone marrow, brain, lung, placenta, prostate, salivary gland, skeletal muscle, testis, thymus, thyroid gland, uterus, colon with mucosa, fetal brain and fetal liver

MOB4A Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

MOB4A Antibody (C-term) Blocking Peptide - Images

MOB4A Antibody (C-term) Blocking Peptide - Background

MOB4A is similar to the yeast Mob1 protein. Yeast Mob1 binds Mps1p, a protein kinase essential for spindle pole body duplication and mitotic checkpoint regulation. Mob4A regulates NDR1 and NDR2 kinase activity, widely expressed nuclear serine-threonine kinases that have been implicated in cell proliferation and/or tumor progression.

MOB4A Antibody (C-term) Blocking Peptide - References

Bichsel,S.J.,J. Biol. Chem. 279 (34), 35228-35235 (2004)Devroe,E.,J. Biol. Chem. 279 (23), 24444-24451 (2004)