

# MOB4A Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7031b

## Product Information

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<b>Application</b>	IF, IHC-P, WB, E
<b>Primary Accession</b>	<a href="#">Q7L9L4</a>
<b>Other Accession</b>	<a href="#">Q8BPB0</a> , <a href="#">Q3T1J9</a> , <a href="#">Q921Y0</a> , <a href="#">Q9H8S9</a>
<b>Reactivity</b>	Human, Mouse
<b>Predicted</b>	Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Calculated MW</b>	25091
<b>Antigen Region</b>	177-206

## Additional Information

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<b>Gene ID</b>	92597
<b>Other Names</b>	MOB kinase activator 1B, Mob1 homolog 1A, Mob1A, Mob1B, Mps one binder kinase activator-like 1A, MOB1B, MOB4A, MOBKL1A
<b>Target/Specificity</b>	This MOB4A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 177-206 amino acids from the C-terminal region of human MOB4A.
<b>Dilution</b>	IF~~1:10~50 IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	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.
<b>Precautions</b>	MOB4A Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	MOB1B ( <a href="#">HGNC:29801</a> )
<b>Synonyms</b>	MOB4A, MOBKL1A

<b>Function</b>	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.
<b>Cellular Location</b>	Cytoplasm. Nucleus
<b>Tissue Location</b>	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

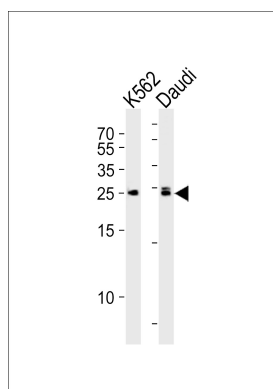
## Background

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.

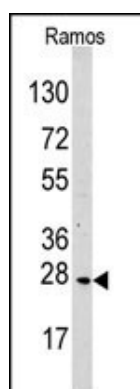
## References

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

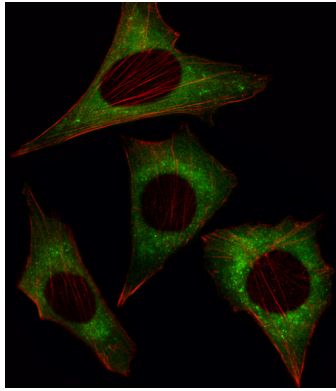
## Images



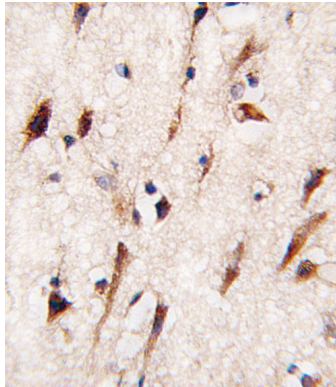
Western blot analysis of lysates from K562, Daudi cell line (from left to right), using MOB4A Antibody (C-term) (Cat. #AP7031b). AP7031b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



MOB4A Antibody (C-term) (Cat. #AP7031b) western blot analysis in Daudi,K562 cell line lysates (35ug/lane).This demonstrates the MOB4A antibody detected the MOB4A protein (arrow).



Fluorescent image of NIH/3T3 cell stained with MOB4A Antibody (C-term)(Cat#AP7031b). NIH/3T3 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with MOB4A primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/ml, 1 h at 37°C). MOB4A immunoreactivity is localized to Cytoplasm significantly.



Formalin-fixed and paraffin-embedded human brain tissue reacted with MOB4A antibody (C-term) (Cat.#AP7031b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## Citations

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- [Impact of nuclear YAP1 expression in residual cancer after neoadjuvant chemohormonal therapy with docetaxel for high-risk localized prostate cancer](#)
- [Cancer susceptibility and embryonic lethality in Mob1a/1b double-mutant mice.](#)
- [Mutual dependence of Mob1 and the chromosomal passenger complex for localization during mitosis.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.