

# MOB4A Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7031b

## **Product Information**

**Application** IF, IHC-P, WB, E

Primary Accession Q7L9L4

Other Accession Q8BPB0, Q3T1J9, Q921Y0, Q9H8S9

Reactivity
Predicted
Mouse, Rat
Host
Clonality
Polyclonal
Isotype
Rabbit IgG
Calculated MW
Antigen Region
Human, Mouse
Rouse
Mouse, Rat
Rabbit
Rabbit
25091
177-206

# **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 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.

**Dilution** IF~~1:10~50 IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent

concentration.

**Format** 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.

**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.

**Precautions** MOB4A Antibody (C-term) is for research use only and not for use in

diagnostic or therapeutic procedures.

## **Protein Information**

Name MOB1B ( <u>HGNC:29801</u>)

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.

**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

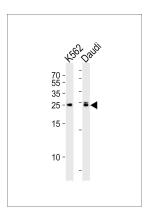
# **Background**

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.

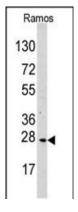
### References

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

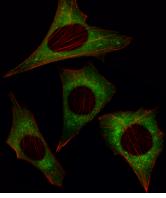
# **Images**

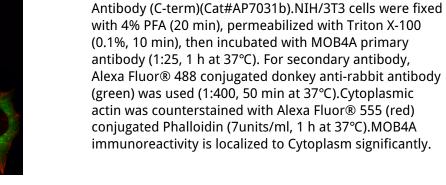


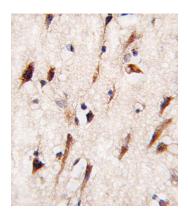
Western blot analysis of lysates from K562, Daudi cell line (from left to right), using MOB4A Antibody (C-term) (Cat. #AP7031b). AP7031b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



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).







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.

Fluorescent image of NIH/3T3 cell stained with MOB4A

# **Citations**

- 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'.