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#3863 Store at -20C

MOB1 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	24	Rabbit	#Q9H8S9, #Q7L9L4	55233, 92597

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

MOB1 Antibody detects endogenous levels of total MOB1 protein (MOB1α and MOB1β).

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro15 of human MOB1. Antibodies are purified by protein A and peptide affinity chromatography.

Background

MOB1 was first identified in yeast as a protein that binds to Mps with essential roles in the completion of mitosis and the maintenance of ploidy (1). Its *Drosophila* and mammalian homologs, Mats and MOB1, respectively, are involved in the Hippo signaling tumor suppressor pathway, which plays a critical role in organ size regulation and which has been implicated in cancer development (2-5). There are two MOB1 proteins in humans, MOB1A and MOB1B, that are encoded by two different genes but which have greater than 95% amino acid sequence identity (6). Both forms bind to members of the nuclear Dbf2-related (NDR) kinases, such as LATS1/2 and NDR1/2, thereby stimulating kinase activity (7-9). This binding is promoted by the phosphorylation of MOB1 at several threonine residues (e.g., Thr12, Thr35) by MST1 and/or MST2 (5,10).

Background References

- Luca, F.C. and Winey, M. (1998) *Mol Biol Cell* 9, 29-46.
- Edgar, B.A. (2006) *Cell* 124, 267-73.
- Saucedo, L.J. and Edgar, B.A. (2007) *Nat Rev Mol Cell Biol* 8, 613-21.
- Harvey, K. and Tapon, N. (2007) *Nat Rev Cancer* 7, 182-91.
- Zeng, Q. and Hong, W. (2008) *Cancer Cell* 13, 188-92.
- Praskova, M. et al. (2008) *Curr Biol* 18, 311-21.
- Devroe, E. et al. (2004) *J Biol Chem* 279, 24444-51.
- Hergovich, A. et al. (2005) *Mol Cell Biol* 25, 8259-72.
- Hergovich, A. et al. (2006) *Biochem Biophys Res Commun* 345, 50-8.
- Hirabayashi, S. et al. (2008) *Oncogene* 27, 4281-92.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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