

MOB1 Antibody

100 µl
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, R	25 kDa	Rabbit**

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 has been implicated in cancer development (2-5). There are two MOB1 proteins in humans, MOB1 α and MOB1 β , that are encoded by two different genes but have 96.3% identity (6). Both forms bind to members of the nuclear Dbf2-related (NDR) kinases, such as LATS1 and 2 and NDR1 and 2, thereby stimulating kinase activity (7-9). This binding is promoted by the phosphorylation of MOB1 at several threonine residues by MST1 and/or MST2 (5,10).

Specificity/Sensitivity: MOB1 Antibody detects endogenous levels of total MOB1 protein (MOB1 α and MOB1 β).

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 References:

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

Entrez-Gene ID #55233
Swiss-Prot Acc. #Q9H8S9

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.

*Species cross-reactivity is determined by western blot.

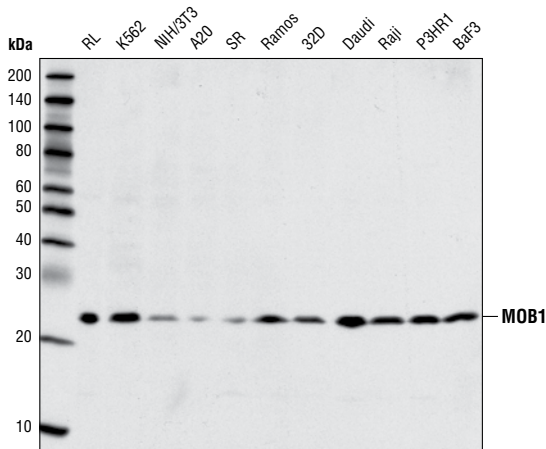
**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignaling.com.

Please visit www.cellsignaling.com for a complete listing of recommended companion products.



Western blot analysis of extracts from various cell lines using MOB1 Antibody.

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

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide

Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine

Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse

All—all species expected

Species enclosed in parentheses are predicted to react based on 100% homology.