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Dab2 (D7O9T) Rabbit mAb


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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IHC-P, IF-IC	H M R	Endogenous	96	Rabbit IgG	#P98082	1601

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:1600 - 1:3200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

Dab2 (D7O9T) Rabbit mAb recognizes endogenous levels of total Dab2 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly388 of human Dab2 protein.

Background

Disabled homologue 2 (Dab2) is a mitogen responsive phosphoprotein that exerts multiple functions through association with numerous proteins. Dab2 modulates signaling pathways through interactions with proteins such as Smads and TGF-β receptors (1,2), axin (3), GRB (4) and Src (5). Dab2 also serves as a cargo-specific adaptor of clathrin-mediated endocytosis via interaction with clathrin (6), AP2 (7), NPXY-containing cargo (8-10), and myosin VI (11,12). In addition, Dab2 regulates cell adhesion by directly binding integrins (13,14). The diverse functions of Dab2 enable it to coordinate cell adhesion, cell motility, membrane trafficking, and signaling. Research studies have shown Dab2 is down-regulated in a number of cancers, thereby suggesting a role as a tumor suppressor (15-17). Phosphorylation of Dab2 decreases its endocytotic function (18).

Background References

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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

WB: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)
IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **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
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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