

**Dab2 Antibody**

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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:
W, IP	H	Endogenous	96	Rabbit	#P98082	1601

**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation

**Dilution**

1:1000  
1:50

**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**

Dab2 Antibody recognizes endogenous levels of total Dab2 protein.

**Source / Purification**

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro222 of human Dab2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

**Background**

Disabled homolog 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 downregulated 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**

**W:** Western Blotting **IP:** Immunoprecipitation

**Cross-Reactivity Key**

**H:** Human

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