

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: |
|---------------|-------------|--------------|-----------|-----------------|-------------|-----------------|
| W, IP, 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.

For a carrier free (BSA and azide free) version of this product see product #98694.

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 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

1. Hocevar, B.A. et al. (2001) *EMBO J* 20, 2789-801.
2. Hocevar, B.A. et al. (2005) *J Biol Chem* 280, 25920-7.
3. Hocevar, B.A. et al. (2003) *EMBO J* 22, 3084-94.
4. Xu, X.X. et al. (1998) *Oncogene* 16, 1561-9.
5. Zhou, J. et al. (2003) *J Biol Chem* 278, 6936-41.
6. Mishra, S.K. et al. (2002) *EMBO J* 21, 4915-26.
7. Morris, S.M. and Cooper, J.A. (2001) *Traffic* 2, 111-23.
8. Keyel, P.A. et al. (2006) *Mol Biol Cell* 17, 4300-17.
9. Maurer, M.E. and Cooper, J.A. (2006) *J Cell Sci* 119, 4235-46.
10. Maurer, M.E. and Cooper, J.A. (2005) *J Cell Sci* 118, 5345-55.
11. Morris, S.M. et al. (2002) *Traffic* 3, 331-41.
12. Hasson, T. (2003) *J Cell Sci* 116, 3453-61.
13. Huang, C.L. et al. (2006) *J Cell Sci* 119, 4420-30.
14. Teckchandani, A. et al. (2009) *J Cell Biol* 186, 99-111.
15. Mok, S.C. et al. (1998) *Oncogene* 16, 2381-7.
16. Anupam, K. et al. (2006) *World J Gastroenterol* 12, 6041-5.
17. Bagadi, S.A. et al. (2007) *Breast Cancer Res Treat* 104, 277-86.
18. Chetrit, D. et al. (2011) *J Biol Chem* 286, 5392-403.

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 **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

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

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