



RABBIT ANTI-Dab1 POLYCLONAL ANTIBODY

CATALOG NUMBER:	AB5840
LOT NUMBER:	
QUANTITY:	100 µL
SPECIFICITY:	Recognizes Dab1. No cross reactivity to human or mouse Dab2.
BACKGROUND:	Dab1 is a protein arising from the mouse gene <i>dab</i> , that is related to the Drosophila gene 'disabled'. Mutations in the mouse <i>dab</i> gene may result in the 'scrambler' and 'yotari' phenotypes. Dab encodes a phosphoprotein that binds non-receptor tyrosine kinases and has been implicated in neuron development. Dab1 is expressed in neuronal populations exposed to reelin, as determined by <i>in situ</i> hybridization to embryonic mouse brain tissue. Dab1 may function as a signaling molecule that regulates positioning in the developing brain. Cloning of human DAB1 and sequence determinations suggests a 96% homology to the mouse sequence. Very low density lipoprotein receptors (VLDLR) and apolipoprotein E receptor-2 (APOER2) both bind Dab1 on their cytoplasmic tails. Dab1 expression is upregulated in knockout mice lacking both <i>Vldlr</i> and <i>Apoer2</i> genes.
IMMUNOGEN:	Highly purified GST-fusion protein corresponding to residues 400-555 of mouse Dab1.
APPLICATIONS:	Western blotting: 1:1,000-1:5,000 Immunocytochemistry: 1:500-1:1,000 Immunohistochemistry: 1:5,000-1:20,000 on cryofixed tissues Immunoprecipitation Optimal working dilutions must be determined by the end user.
SPECIES REACTIVITIES:	Mouse. Reactivity with other species has not yet been tested.
FORMAT:	Serum, delipidated and defibrinated.
PRESENTATION:	Liquid in 0.02M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01% sodium azide.
STORAGE/HANDLING:	Maintain at -20°C in undiluted aliquots for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles.
REFERENCE:	Haas, C.A., et al., (2002) <i>J. Neuroscience</i> 22 :5797-5802. Hack, I., et al., (2002) <i>Nature Neuroscience</i> 5 :939-945.
RELATED REFERENCES:	D'Arcangelo, G. et al., (1999) <i>Neuron</i> 24 (2): 471-479. Howell, et al., (1997) <i>Nature</i> 389 :733-737. Lambert deRouvrouit, C. and Goffinet, A.M. (1998) <i>Genomics</i> 53 :246-247. Sheldon, M. et al., (1997) <i>Nature</i> 389 :730-733. Trommsdorff, M. et al., (1999) <i>Cell</i> 97 :689-701. Ware, M.L. et al., (1997). <i>Neuron</i> 19 :239-249.



Homayouni, R. et al., (1999) *J. Neurosci* **19**(17):7507-7515.
Rice, D.S. et al., (1998) *Development* **125**(18):3179-3729.
Alvarez-Dolado, M. et al., (1999) *J. Neurosci* **15**(19):6979-6993.

APPLICATION NOTES FOR AB5840

Immunoblotting

- 1) For immunoblotting block the blot using 5% milk for one (1) hour at room temperature.
- 2) Incubate the blot with the primary antibody diluted 1:1,000-1:5,000 in 1% milk in TTBS for one (1) hour at room temperature.
- 3) An 80 kDa band corresponding to Dab1 is detected in extracts from mouse brain and transfected cells.

Immunoprecipitation

For immunoprecipitation use 1 μ L of antiserum per 500 μ g of brain lysate. Immunoprecipitations are carried out at 4°C for two (2) hours. Lysates are buffered to contain 50 mM Tris Cl, pH 7.4, with 150 mM sodium chloride, 1% (v/v) NP-40, 10 μ g/mL aprotinin and 10 μ g/mL leupeptin.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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