## **Dab1 Antibody**



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

Applications: W	Reactivity: H	<b>Sensitivity:</b> Transfected Only	<b>MW (kDa):</b> 80, 110 GFP-Dab1 fusion.	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #075553	Entrez-Gene Id: 1600
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Dab1 Antibody detects transfected levels of Dab1 protein. This antibody does not cross-react with other proteins.				
Species predict based on 100% homology	ted to react sequence	Mouse, Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues close to the amino terminus of human Dab1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		The Reelin signaling pathway plays a critical role in neuronal development. Reelin is a secreted glycoprotein that binds to the lipoprotein receptors VLDLR and ApoER2 or alpha3beta1 integrin on the surface of neurons (1,2). Activation of these receptors induces tyrosine phosphorylation of Disabled 1 (Dab1), an intracellular adaptor. It is generally believed that tyrosine phosphorylation of Dab1 by Src family tyrosine kinases is the most critical downstream event in Reelin signaling. The phosphotyrosine-binding (PTB) domain within its amino terminus enables Dab1 to recognize and bind to a conserved sequence motif within the cytoplasmic tail of the receptors. In addition, the PTB contains a Pleckstrin Homology-like subdomain that binds to phosphoinositides. The phosphoinositide-binding region within the Dab1 PTB domain is required for membrane localization and basal tyrosine phosphorylation of Dab1 independent of VLDLR and ApoER2 (3). It has been demonstrated that Src, CrkII, CrkL and Dock1 associate with tyrosine-phosphorylated Dab. The CrkII-Dab1 interaction requires tyrosine phosphorylation of Dab1 at residues 220 or 232 (4).				
Background References		1. Huang, Y. et al. (2005) <i>Biochem. Biophys. Res. Commun.</i> 331, 1460-1468. 2. Luque, J.M. (2004) <i>Brain Res. Dev. Brain Res.</i> 152, 269-271. 3. Morimura, T. et al. (2005) <i>J. Biol. Chem.</i> 280, 16901-16908. 4. Chen, K. et al. (2004) <i>J. Cell. Sci.</i> 117, 4527-4536.				
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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human				
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				

more information.

**Limited Uses** 

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