

Datasheet for ABIN684328
anti-DAB1 antibody (pTyr220)



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Overview

Quantity:	100 µL
Target:	DAB1
Binding Specificity:	pTyr220
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DAB1 antibody is un-conjugated
Application:	ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human Dab1 around the phosphorylation site of Tyr220
Isotype:	IgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Human,Mouse,Dog,Cow,Pig,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	DAB1
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Target Details

Alternative Name: Dab1 ([DAB1 Products](#))

Background: Synonyms: Dab 1, Disabled homolog 1, Disabled homolog 1 Drosophila, Scm, Scr, Scrambler, Yot, Yotari.

Background: Disabled 1 (Dab1) is an 80 kDa protein that is encoded by the Disabled-1 gene locus which is mutated in scrambler and yotari mutant mice. Phenotypically, the mutation of this gene produces motor defects and ataxia, disruption of neuronal migration, and severe cerebellar hypoplasia. Dab1 is an intracellular adapter protein that functions in downstream signaling events initiated by the secreted protein reelin. Dab1 contains a phosphotyrosine binding (PTB) domain in the amino terminus. Tyrosine phosphorylation of Dab1 is increased by reelin binding to the Very Low Density Lipoprotein Receptor (VLDLR) and Apolipoprotein E Receptor 2 (ApoER2) through stimulation of Src family kinases. Src family kinase and c-Abl activities are themselves then stimulated by binding to tyrosine phosphorylated Dab1. Dab1 also mediates activation of Akt (PKB) by reelin resulting in inhibition of glycogen synthase kinase 3 beta (GSK-3 beta) and decreased phosphorylation of the microtubule-associated protein, Tau. Dab1 serine 491 is phosphorylated in a Cdk5-dependent manner and regulates, likely indirectly, Reelin-induced signaling during neural cortex development.

Gene ID: 1600

Application Details

Application Notes: ELISA 1:500-1000
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months