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Phospho-Dab1 (Ser491) Rabbit pAb

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Catalog # AP94689

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P97318
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63578
Physical State	Liquid
Immunogen	KLH conjugated Synthesised phosphopeptide derived from mouse Dab1 around the phosphorylation site of Ser491
Epitope Specificity	QS(p-S)PS
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 PID domain.
SUBUNIT	Associates with the SH2 domains of SRC, FYN and ABL. Interacts with DAB2IP and SIAH1. Interacts with LRP1.
Post-translational modifications	Phosphorylated on Tyr-198 and Tyr-220 upon reelin induction in embryonic neurons. Also phosphorylated on Ser-524 independently of reelin signaling.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The laminar organization of multiple neuronal types in the cerebral cortex is required for normal cognitive function. In mice, the disabled-1 gene plays a central role in brain development, directing the migration of cortical neurons past previously formed neurons to reach their proper layer. This gene is similar to disabled-1, and the protein encoded by this gene is thought to be a signal transducer that interacts with protein kinase pathways to regulate neuronal positioning in the developing brain. Alternatively spliced transcript variants of this gene have been reported, but their full length nature has not been determined. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	13131
Other Names	Disabled homolog 1, mDab1, Dab1 {ECO:0000303|PubMed:9009273, ECO:0000312|MGI:MGI:108554}
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Dab1 {ECO:0000303|PubMed:9009273, ECO:0000312|MGI:MGI:108554}
Function	Signaling adapter of the reelin-mediated signaling pathway, which regulates the migration and differentiation of postmitotic neurons during brain development (PubMed:12526739, PubMed:9009273, PubMed:9338784, PubMed:9338785). Mediates intracellular transduction of Reelin signaling following reelin (RELN)-binding to its receptor: acts by docking proteins through its phosphotyrosine residues and PID domain (PubMed:12526739, PubMed:9009273, PubMed:9338784, PubMed:9338785).
Cellular Location	Cytoplasm.
Tissue Location	Expressed mainly in brain (PubMed:9009273, PubMed:9338785). Specifically expressin in cortical neurons (PubMed:9338784, PubMed:9338785).

Background

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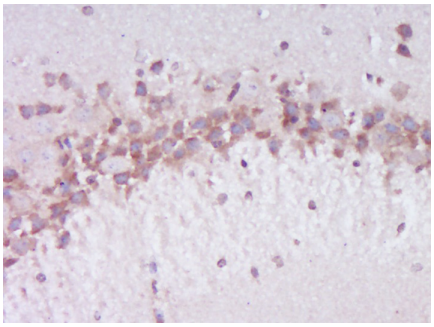
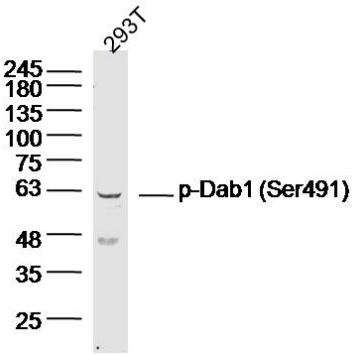
Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (P-Dab1 (Ser491)) Polyclonal Antibody, Unconjugated (AP94689) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Sample: 293T Cell (Human) Lysate at 40 ug Primary: Anti-Phospho-Dab1 (Ser491)(AP94689)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 65kD Observed band size: 63kD