

Datasheet for ABIN7043103
anti-DLG3 antibody (AA 93-124)



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1 Image

Overview

Quantity:	50 µL
Target:	DLG3
Binding Specificity:	AA 93-124
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DLG3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to SAP-102
Immunogen:	Immunogen: GST fusion protein Immunogen Sequence: GST fusion protein with the sequence KSTPKLNGSGPSWWPECTCTNRDWYEQVNGSD, corresponding to amino acid residues 93-124 of human SAP102
Isotype:	IgG
Specificity:	N-terminal domain
Cross-Reactivity:	Rat
Predicted Reactivity:	Rat,mouse - 26,32 amino acid residues identical
Characteristics:	Anti-SAP102 Antibody is directed against an epitope located at the N-terminal region of the

Product Details

human . Anti-SAP102 Antibody (ABIN7043103 and ABIN7045144) can be used in western blot and immunohistochemistry applications, and has been designed to recognize from rat, mouse and human samples.

Purification: The serum was depleted of anti-GST antibodies by affinity chromatography on immobilized GST and then the IgG fraction was purified on immobilized antigen.

Target Details

Target: DLG3

Alternative Name: DLG3 ([DLG3 Products](#))

Background: Synapse-associated protein 102, SAP-102, Discs large homolog 3, DLG3, NE-DLG,SAP-102 (also known as DLG3) is a PDZ containing domain protein that is also a member of the membrane-associated guanylate kinase (MAGUK) family of multi-domain adaptor proteins^{1,2}. PDZ domains are conserved protein domains of about 90 amino acids involved in protein-protein recognition, protein targeting and assembly of multi-protein complexes. The name PDZ derives from the first three proteins in which these domains were identified: PSD-95 (a 95 kDa protein involved in signaling at the post-synaptic density), DLG (the Drosophila melanogaster Discs large protein) and ZO-1 (the zonula occludens 1 protein involved in maintenance of epithelial polarity)^{1,2}. MAGUKs are scaffolding proteins that comprise several modular protein binding motifs including one or more PDZ domains, a Src homology 3 (SH3) domain, and a catalytically inactive guanylate kinase-like domain^{1,2}. The multidomain nature of PDZ-containing proteins enables them to interact with multiple binding partners and hence organize larger signaling protein complexes. SAP-102 has been shown to participate in the postsynaptic density, a dedicated structure formed in postsynaptic nerve terminals that includes a specialized assembly of ion channels, receptors and signaling molecules that are involved in information processing and the modulation of synaptic plasticity^{1,2}. Moreover, mutations in the SAP102 gene have been linked with a form of mental retardation³.

Alternative names: SAP102, Synapse-associated protein 102, SAP-102, Discs large homolog 3, DLG3, NE-DLG

Gene ID: 1741

NCBI Accession: [NM_021120](#)

UniProt: [Q92796](#)

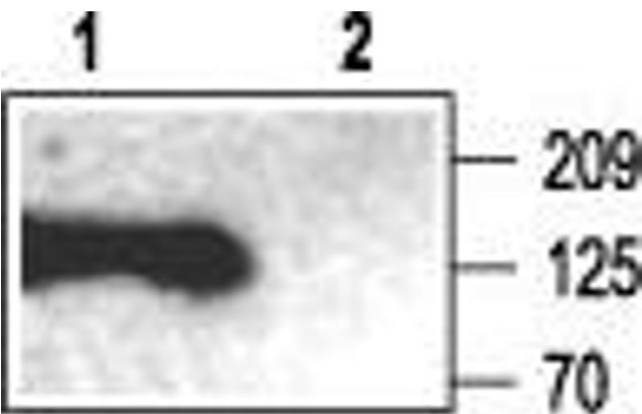
Application Details

Application Notes:	Antigen preadsorption control: 3 µg fusion protein per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A Application Dilutions Western blot wb: 1:400
Comment:	Negative Control: (ABIN7235227) Blocking Peptide: (ABIN7235227)
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute with double distilled water (DDW) to a concentration of 1.0 mg/mL.
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C, -20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



Western Blotting

Image 1. Western blot analysis of rat brain membranes: -
1. Anti-SAP102 Antibody (ABIN7043103 and ABIN7045144), (1:400). 2. Anti-SAP102 Antibody, preincubated with the control fusion protein antigen.