

Datasheet for ABIN3043563
anti-DLG4 antibody (AA 581-724)



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4 Images

Overview

Quantity:	100 µg
Target:	DLG4
Binding Specificity:	AA 581-724
Reactivity:	Rat, Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DLG4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Disks large homolog 4(DLG4) detection. Tested with WB, IHC-P in Human,Rat.
Immunogen:	E.coli-derived human PSD95 recombinant protein (Position: H581-L724). Human PSD95 shares 100% amino acid (aa) sequence identity with both mouse and rat PSD95.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Disks large homolog 4(DLG4) detection. Tested with WB, IHC-P in Human,Rat.</p> <p>Gene Name: discs, large homolog 4 (Drosophila)</p> <p>Protein Name: Disks large homolog 4</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	DLG4
Alternative Name:	DLG4 (DLG4 Products)
Background:	<p>DLG4 discs large homolog 4, also known as PSD95 or SAP-90, is a protein that in humans is encoded by the DLG4 gene. It is a member of the membrane-associated guanylate kinase (MAGUK) family. This gene is mapped to 17p13.1. DLG4 can heteromultimerize with another MAGUK protein, DLG2, and is recruited into NMDA receptor and potassium channel clusters. These two MAGUK proteins may interact at postsynaptic sites to form a multimeric scaffold for the clustering of receptors, ion channels, and associated signaling proteins. Overexpression of DLG4 in hippocampal neurons could drive maturation of glutamatergic synapses. DLG4 can orchestrate synaptic development and it has a role in synapse stabilization and plasticity. Ubiquitination of DLG4 through an MDM2-mediated pathway can regulate AMPA receptor surface expression during synaptic plasticity.</p> <p>Synonyms: Discs large homolog 4 antibody Disks large homolog 4 antibody DLG 4 antibody DLG4 antibody DLG4_HUMAN antibody FLJ97752 antibody FLJ98574 antibody Human post synaptic density protein 95 antibody Human post-synaptic density protein 95 antibody Post synaptic density protein 95 antibody Postsynaptic density protein 95 antibody PSD 95 antibody PSD-95 antibody PSD95 antibody SAP 90 antibody SAP-90 antibody SAP90 antibody Synapse associated protein 90 antibody Synapse-associated protein 90 antibody Tax interaction protein 15 antibody</p>
Gene ID:	1742
UniProt:	P78352
Pathways:	Regulation of Muscle Cell Differentiation , Synaptic Membrane , Skeletal Muscle Fiber Development , Asymmetric Protein Localization , Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
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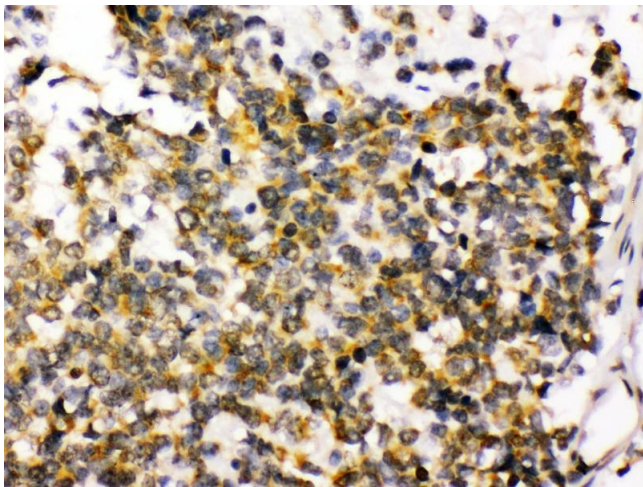
Application Details

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

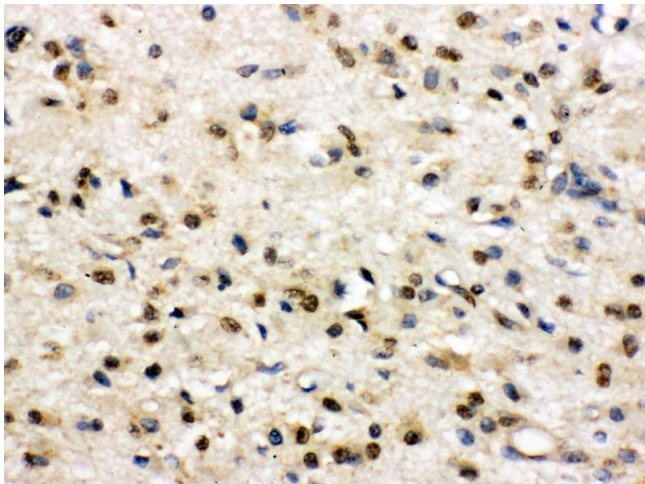
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



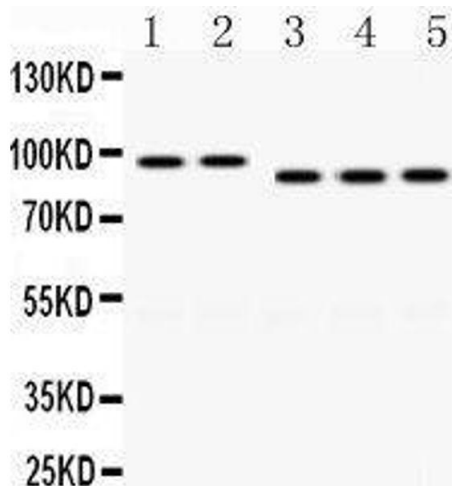
Immunohistochemistry (Paraffin-embedded Sections)

Image 1.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2.



Western Blotting

Image 3.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3043563.