

Recombinant Human PSD95 protein (His tag) ab199598

1 References

Description

Product name	Recombinant Human PSD95 protein (His tag)	
Purity	> 95 % SDS-PAGE. Determined by SEC-HPLC and reducing SDS-PAGE.	
Endotoxin level	< 0.100 Eu/μg	
Expression system	Escherichia coli	
Accession	<u>P78352</u>	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	<p>MNHKVHHHHHHMDCLCIVTTKKYRYQDEDTPPLEHSPAHL LPNQANSPPVI VNTDTLEAPGYELQVNGTEGEMEYEEITLERGNSGLGFSIA GGTDNPHIG DDPSIFITKIIPGGAAAQDGRRLRVNDSILFVNEVDVREVT HSAAVEALKE AGSIVRLYVMRRKPPAEKVMEIKLIKGPKGLGFSIAGGVGN QHIPGDNSI YVTKIIEGGAHKGDRQLQIGDKILAVNSVGLDVMHEDAVA ALKNTYDVV YLKVAKPSNAYLSDSYAPPDITTSYSQHLDNEISHSSYLGT DYPTAMTPT SPRRYSPVAKDLLGEEDIPREPRRIVIRHGSTGLGFNIVGG EDGEGIFIS FILAGGPADLSGELRKGDQILSVNGVDLRNASHEQAAIALK NAGQVTII AQYKPEEYSRFEAKIHDLREQLMNSSLGSGTASLRSNPKR GFYRALFDY DKTKDCGFLSQALSFRFGDVLHVIDAGDEEWWQARRVH SDSETDDIGFIP SKRRVERREWSRLKAKDWGSSSGSQGREDSVLSYETVT QMEVHYARPIII LGPTKDRANDLLSEFPDKFGSCVPHTTRPKREYEIDGR DYHFVSSREKM</p>	

EKDIQAHKFIAGQYNHLYGTSVQSVREVAEQGKHCILD
VSANAVRRLQ
AAHLHPAIFIRPRSLLENVLEINKRITEEQARKAFDRATKLEQ
EFTECFE
AVEGDSFEEMHKVKRVIEDLSGPYWVPARERL

Predicted molecular weight	82 kDa including tags
Amino acids	1 to 724
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab199598** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE HPLC
Form	Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.40
Constituent: PBS

Reconstitution 'Lyophilized from a 0.2 µM filtered solution of PBS,pH 7.4 Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
It is not recommended to reconstitute to a concentration less than 100 µg/ml.
Dissolve the lyophilized protein in 1X PBS.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

General Info

Function Interacts with the cytoplasmic tail of NMDA receptor subunits and shaker-type potassium channels. Required for synaptic plasticity associated with NMDA receptor signaling.
Overexpression or depletion of DLG4 changes the ratio of excitatory to inhibitory synapses in hippocampal neurons. May reduce the amplitude of ASIC3 acid-evoked currents by retaining the channel intracellularly. May regulate the intracellular trafficking of ADR1B.

Tissue specificity Brain.

Sequence similarities Belongs to the MAGUK family.
Contains 1 guanylate kinase-like domain.
Contains 3 PDZ (DHR) domains.
Contains 1 SH3 domain.

Domain The PDZ domain 3 mediates interaction with ADR1B.
The L27 domain near the N-terminus of isoform 2 is required for HGS/HRS-dependent targeting to postsynaptic density.

Post-translational Palmitoylation of isoform 1 is required for targeting to postsynaptic density.

modifications

Cellular localization

Cell membrane. Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Cell projection, axon. Cell junction, synapse. High levels in postsynaptic density of neurons in the forebrain. Also in presynaptic region of inhibitory synapses formed by cerebellar basket cells on axon hillocks of Purkinje cells.

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