DLG2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DLG2, Polyclonal Antibody
Full Product Name	DLG2 Antibody
Product Gene Name	anti-DLG2 antibody
Product Synonym Names	channel associated protein of synapse-110; chapsyn-110; Discs large 2; DLG2; postsynaptic density protein PSD-93
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	DLG2 Antibody detects endogenous levels of DLG2.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	97 kDa
OMIM	U32376 mRNA
3D Structure	ModBase 3D Structure for Q15700
Target Modification	Unmodified/Total
Immunogen	The antiserum was produced against synthesized peptide derived from human DLG2.
Immunogen Range	601-650
Applications Tested/Suitable for anti-DLG2 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-DLG2 antibody	WB: 1:500~1:1000 IHC: 1:50~1:100 ELISA: 1:10000
Related Product Information for anti-DLG2 antibody	MBS9506282 is an antibody targeting DLG2. Also known as DLG2 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-DLG2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DLG2. It may not necessarily be applicable to this product.

NCBI GI #	218156338
NCBI GeneID	1740

NCBI Accession #	NP_001136171.1
UniProt Primary Accession #	Q15700
UniProt Secondary Accession #	Q59G57; Q5H9Q4; Q68CQ8; Q6ZTA8; B7WNY8; F8W9V6
UniProt Related Accession #	Q15700
GenBank Nucleotide #	NM_001142699.1
NCBI Official Full Name	disks large homolog 2 isoform 1
NCBI Official Synonym Full Names	discs large MAGUK scaffold protein 2
NCBI Official Symbol	DLG2
NCBI Official Synonym Symbols	PSD93; PSD-93; PPP1R58; chapsyn-110
UniProt Protein Name	Disks large homolog 2
UniProt Synonym Protein Names	Channel-associated protein of synapse-110; Chapsyn-110; Postsynaptic density protein PSD-93
Protein Family	Disks large
UniProt Gene Name	DLG2
UniProt Synonym Gene Names	Chapsyn-110
NCBI Protein Information	disks large homolog 2
NCBI Summary for DLG2	This gene encodes a member of the membrane-associated guanylate kinase (MAGUK) family. The encoded protein forms a heterodimer with a related family member that may interact at postsynaptic sites to form a multimeric scaffold for the clustering of receptors, ion channels, and associated signaling proteins. Multiple transcript variants encoding different isoforms have been found for this gene. Additional transcript variants have been described, but their full-length nature is not known. [provided by RefSeq, Dec 2008]
UniProt Comments for DLG2	Required for perception of chronic pain through NMDA receptor signaling. Regulates surface expression of NMDA receptors in dorsal horn neurons of the spinal cord. Interacts with the cytoplasmic tail of NMDA receptor subunits as well as inward rectifying potassium channels. Involved in regulation of synaptic stability at cholinergic synapses. Part of the postsynaptic protein scaffold of excitatory synapses ().
Research Articles on DLG2	**1.** Two novel promoters and coding first exons in the DLG2 gene were identified. These novel isoforms are expressed in the fetal brain. Deletions of these new elements were found associated with neurodevelopmental disorders. The work brings evidence for the lack of cross-annotation in human versus mouse reference genomes and nucleotide versus protein databases.
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