10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PDLIM5 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI10623

Product Information

Application	WB
Primary Accession	Q96HC4
Other Accession	NM_001011513, NP_001011513
Reactivity	Human, Mouse, Rat, Pig, Dog, Bovine
Predicted	Human, Mouse, Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63945

Additional Information

Gene ID	10611
Alias Symbol	L9, ENH, LIM, ENH1
Other Names	PDZ and LIM domain protein 5, Enigma homolog, Enigma-like PDZ and LIM domains protein, PDLIM5, ENH
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 100 ul of distilled water. Final anti-PDLIM5 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	PDLIM5 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

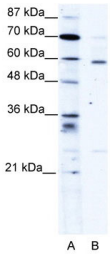
Name	PDLIM5 {ECO:0000303|PubMed:15346770, ECO:0000312|HGNC:HGNC:17468}
Function	May play an important role in the heart development by scaffolding PKC to the Z-disk region. May play a role in the regulation of cardiomyocyte expansion. Isoforms lacking the LIM domains may negatively modulate the scaffolding activity of isoform 1. Overexpression promotes the development of heart hypertrophy. Contributes to the regulation of dendritic spine morphogenesis in neurons. May be required to restrain postsynaptic growth of excitatory synapses. Isoform 1, but not isoform 2, expression favors spine thinning and elongation.

Cellular Location	Postsynaptic density {ECO:0000250|UniProtKB:Q62920}. Presynapse {ECO:0000250|UniProtKB:Q62920}. Postsynapse {ECO:0000250|UniProtKB:Q62920}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q62920}. Note=Detected both at presynaptic and postsynaptic sites, exclusively at excitatory synapses, but not inhibitory synapses, in hippocampal neurons {ECO:0000250|UniProtKB:Q62920}
Tissue Location	Heart and skeletal muscle specific. Expression is commonly increased in the brain of patients with bipolar disorder, schizophrenia, and major depression.

References

Lasorella,A., et al., (2006) Proc. Natl. Acad. Sci. U.S.A. 103 (13), 4976-4981Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.

Images



WB Suggested Anti-PDLIM5 Antibody
Titration: 1.25ug/ml
ELISA Titer: 1:3125
Positive Control: HepG2 cell lysate

There is BioGPS gene expression data showing that PDLIM5 is expressed in HepG2