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PDLIM5 Polyclonal Antibody

Catalog # AP71830

Product Information

Application	WB, IHC-P
Primary Accession	Q96HC4
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63945

Additional Information

Gene ID	10611
Other Names	PDLIM5; ENH; L9; PDZ and LIM domain protein 5; Enigma homolog; Enigma-like PDZ and LIM domains protein
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

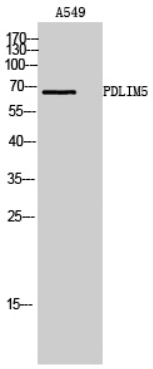
Name	PDLIM5 {ECO:0000303|PubMed:15346770, ECO:0000312|HGNC:HGNC:17468}
Function	May play an important role in the heart development by scaffolding PKC to the Z-disk region. May play a role in the regulation of cardiomyocyte expansion. Isoforms lacking the LIM domains may negatively modulate the scaffolding 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.

Background

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. Overexpression promotes the development of heart hypertrophy. Contributes to the regulation of dendritic spine morphogenesis in neurons. May restrain postsynaptic growth of excitatory synapses (By similarity).

Images



Western Blot analysis of A549 cells using PDLIM5 Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.