

# PDLIM5 Polyclonal Antibody

Catalog # AP71830

## Product Information

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<b>Application</b>	WB, IHC-P
<b>Primary Accession</b>	<a href="#">Q96HC4</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	63945

## Additional Information

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

## Protein Information

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<b>Name</b>	PDLIM5 {ECO:0000303   PubMed:15346770, ECO:0000312   HGNC:HGNC:17468}
<b>Function</b>	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.
<b>Cellular Location</b>	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}

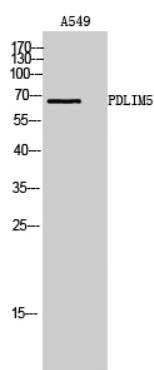
## Tissue Location

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'.