



Rabbit Anti-PDLIM5 antibody

SL12601R

Product Name:	PDLIM5
Chinese Name:	PDZ和LIM结构域Binding protein5抗体
Alias:	ENH; ENH1; Enigma homolog; Enigma like LIM domain protein; Enigma like PDZ and LIM domains protein; Enigma-like PDZ and LIM domains protein; L 9; L9; LIM; PDLI5 HUMAN; PDLIM5; PDZ and LIM domain 5; PDZ and LIM domain protein 5.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Zebrafish,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	64kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PDLIM5:521-596/596
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes a member of a family of proteins that possess a 100-amino acid PDZ domain at the N terminus and one to three LIM domains at the C-terminus. This family member functions as a scaffold protein that tethers protein kinases to the Z-disk in striated muscles. It is thought to function in cardiomyocyte expansion and in restraining postsynaptic growth of excitatory synapses. Alternative splicing of this gene results in

multiple transcript variants. [provided by RefSeq, Jan 2012]

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

Subcellular Location:

Cell junction > synapse > postsynaptic cell membrane > postsynaptic density. Cell junction > synapse > synaptosome. Cytoplasm. Detected both at presynaptic and postsynaptic sites.

Tissue Specificity:

Heart and skeletal muscle specific. Expression is commonly increased in the brain of patients with bipolar disorder, schizophrenia, and major depression.

Similarity:

Contains 3 LIM zinc-binding domains.
Contains 1 PDZ (DHR) domain.

SWISS:

Q96HC4

Gene ID:

10611

Database links:

[Entrez Gene: 503621](#) Cow

[Entrez Gene: 10611](#) Human

[Entrez Gene: 56376](#) Mouse

[Entrez Gene: 64353](#) Rat

[Omim: 605904](#) Human

[SwissProt: Q96HC4](#) Human

[SwissProt: Q8CI51](#) Mouse

[SwissProt: Q62920](#) Rat

[Unigene: 480311](#) Human

[Unigene: 117709](#) Mouse

[Unigene: 221146](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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