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Rabbit Anti-PDLIM7 antibody

SL12603R

Product Name:	PDLIM7
Chinese Name:	PDZ和LIM结构域Binding protein7抗体
Alias:	1110003B01Rik; Enigma; LIM domain protein; LIM domain protein enigma; LIM mineralization protein 1; Lim mineralization protein 3; LIM mineralization protein; LMP 1; LMP; LMP1; LMP3; PDLI7_HUMAN; PDLIM 7; Pdlim7; PDZ and LIM doamin protein 7; PDZ and LIM domain 7; PDZ and LIM domain protein 7; Protein enigma.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Horse,Rabbit,Zebrafish,
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:	50kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PDLIM7:331-430/457
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:	The protein encoded by this gene is representative of a family of proteins composed of conserved PDZ and LIM domains. LIM domains are proposed to function in protein-protein recognition in a variety of contexts including gene transcription and

development and in cytoskeletal interaction. The LIM domains of this protein bind to protein kinases, whereas the PDZ domain binds to actin filaments. The gene product is involved in the assembly of an actin filament-associated complex essential for transmission of ret/ptc2 mitogenic signaling. The biological function is likely to be that of an adapter, with the PDZ domain localizing the LIM-binding proteins to actin filaments of both skeletal muscle and nonmuscle tissues. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2008]

Function:
May function as a scaffold on which the coordinated assembly of proteins can occur. May play a role as an adapter that, via its PDZ domain, localizes LIM-binding proteins to actin filaments of both skeletal muscle and nonmuscle tissues. Involved in both of the two fundamental mechanisms of bone formation, direct bone formation (e.g. embryonic flat bones mandible and cranium), and endochondral bone formation (e.g. embryonic long bone development). Plays a role during fracture repair. Involved in BMP6 signaling pathway.

Subcellular Location:
Cytoplasm. Cytoplasm > cytoskeleton. Colocalizes with RET to the cell periphery and in some cytoskeletal components. Colocalizes with TPM2 near the Z line in muscle. Co-localizes with TBX4 and TBX5 to actin filaments.

Tissue Specificity:
Isoform 1 and isoform 2 are expressed ubiquitously, however, isoform 2 predominates in skeletal muscle, isoform 1 is more abundant in lung, spleen, leukocytes and fetal liver.

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

SWISS:
Q9NR12

Gene ID:
9260

Database links:

Entrez Gene: 533851 Cow

Entrez Gene: 611246 Dog

Entrez Gene: 100712754 Guinea pig

Entrez Gene: 100058356 Horse

	Entrez Gene: 9260 Human Entrez Gene: 67399 Mouse Entrez Gene: 286908 Rat Entrez Gene: 393813 Zebrafish Omim: 605903 Human SwissProt: Q3SX40 Cow SwissProt: Q9NR12 Human SwissProt: Q3TJD7 Mouse SwissProt: Q9Z1Z9 Rat SwissProt: Q6P7E4 Zebrafish Unigene: 533040 Human Unigene: 275648 Mouse Unigene: 7274 Rat Unigene: 118064 Zebrafish Unigene: 121170 Zebrafish Unigene: 85085 Zebrafish **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.