

KD-Validated Anti-PDLIM7 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2108

Product Information

Application	WB, FC, ICC
Primary Accession	Q9NR12
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB13710
Calculated MW	49845
Gene Name	PDLIM7
Aliases	PDLIM7; PDZ And LIM Domain 7; ENIGMA; PDZ And LIM Domain 7 (Enigma); PDZ And LIM Domain Protein 7; Protein Enigma; LMP; Lim Mineralization Protein 3; LIM Mineralization Protein; LIM Domain Protein; 1110003B01Rik; LMP1; LMP3
Immunogen	Recombinant protein of human PDLIM7

Additional Information

Gene ID	9260
Other Names	PDZ and LIM domain protein 7, LIM mineralization protein, LMP, Protein enigma, PDLIM7, ENIGMA

Protein Information

Name	PDLIM7
Synonyms	ENIGMA
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 (By similarity).
Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton. Note=Colocalizes with RET to the cell periphery and in some cytoskeletal components. Colocalizes with TPM2 near the Z line in muscle. Colocalizes with TBX4 and TBX5 to actin filaments (By similarity).
Tissue Location	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

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