

## Rabbit anti-Human, Mouse PDLIM7 Polyclonal Antibody | anti-PDLIM7 antibody

PDLIM7 Antibody

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                       |
|-----------|--------|--------------|------------------------------------|
| AAA322955 | Rabbit | Human, Mouse | Immunohistochemistry, Western Blot |

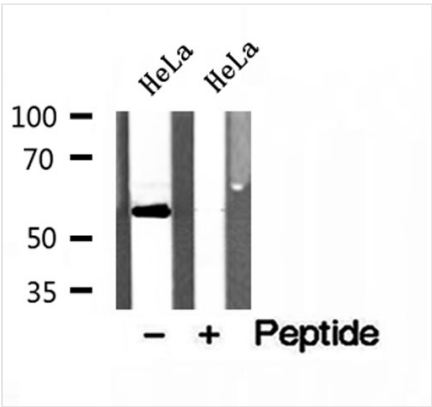
### PRODUCT SYNONYMS

PDLIM7; Polyclonal Antibody; PDLIM7 Antibody; 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; anti-PDLIM7 antibody

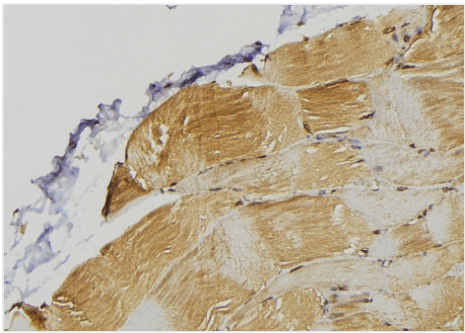
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                           |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                    |
| Reactivity                                       | Human, Mouse                                                                                                                                                                                                              |
| Clonality                                        | Polyclonal                                                                                                                                                                                                                |
| Isotype                                          | IgG                                                                                                                                                                                                                       |
| Specificity                                      | PDLIM7 antibody detects endogenous levels of PDLIM7.                                                                                                                                                                      |
| Purity/Purification                              | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                             |
| Form/Format                                      | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                             |
| Concentration                                    | 1mg/ml (varies by lot)                                                                                                                                                                                                    |
| Sequence Length                                  | 457                                                                                                                                                                                                                       |
| Applicable Applications for anti-PDLIM7 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                             |
| Immunogen                                        | A synthesized peptide derived from human PDLIM7.                                                                                                                                                                          |
| 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.                                           |
| Predicted Cross Reactivity                       | <b>Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Chicken</b>                                                                                                                                                              |
| Similarity                                       | Pig (100%), Zebrafish (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Chicken (92%)                                                                                                                      |
| Conjugation                                      | Unconjugated                                                                                                                                                                                                              |
| Preparation and Storage                          | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                         |

IMAGES



**WB (Western Blot)**  
Western blot analysis of extracts of HeLa cells, using PDLIM7 antibody.



**IHC (Immunohistochemistry)**  
AAA322955 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-PDLIM7 antibody</b> | <p><b>Function:</b> 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).</p> <p><b>Subunit Structure:</b> Binds via its LIM zinc-binding 3 domain (LIM 3) to endocytic codes of INSR, but not with those of IGF1R, LDLR, TFRC, or EGFR. Interacts with various PKC isoforms through the LIM zinc-binding domains. Binds to RET in a phosphorylation-independent manner via its LIM zinc-binding domain 2 (LIM 2). Probably part of a complex with SHC and the RET dimer. Interacts with TPM2. Interacts with TBX4 and TBX5 (By similarity).</p> <p><b>Similarity:</b> The LIM zinc-binding 2 (LIM 2) domain interacts with TBX4. The LIM zinc-binding 3 (LIM 3) domain provides the structural basis for recognition of tyrosine-containing tight turn structures. This domain is necessary and sufficient for interaction with TBX5 (By similarity). Anchored to cell periphery via its N-terminal PDZ domain.</p> |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 11496885                                               |
| NCBI GeneID                      | 9260                                                   |
| NCBI Accession #                 | NP_005442.2                                            |
| NCBI GenBank Nucleotide #        | NM_005451.4                                            |
| UniProt Accession #              | Q9NR12; Q14250; Q5XG82; Q6NVZ5; Q96C91; Q9BXB8; Q9BXB9 |
| Molecular Weight                 | Observed: 55 kDa<br>Predicted: 50 kDa                  |
| NCBI Official Full Name          | PDZ and LIM domain protein 7 isoform 1                 |
| NCBI Official Synonym Full Names | PDZ and LIM domain 7                                   |
| NCBI Official Symbol             | PDLIM7                                                 |
| NCBI Official Synonym Symbols    | LMP1; LMP3                                             |
| NCBI Protein Information         | PDZ and LIM domain protein 7                           |
| UniProt Protein Name             | PDZ and LIM domain protein 7                           |
| UniProt Gene Name                | <b>PDLIM7</b>                                          |
| UniProt Synonym Gene Names       | ENIGMA; LMP                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pdlim7-antibody-immunohistochemistry-western-blot-elisa/322955>