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KD-Validated Anti-PDLIM7 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2108

Specification

KD-Validated Anti-PDLIM7 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q9NR12
Reactivity	**Rat, Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 50 kDa, observed, 49 kDa KDa**
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**

KD-Validated Anti-PDLIM7 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**9260**

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

KD-Validated Anti-PDLIM7 Rabbit Monoclonal Antibody - 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

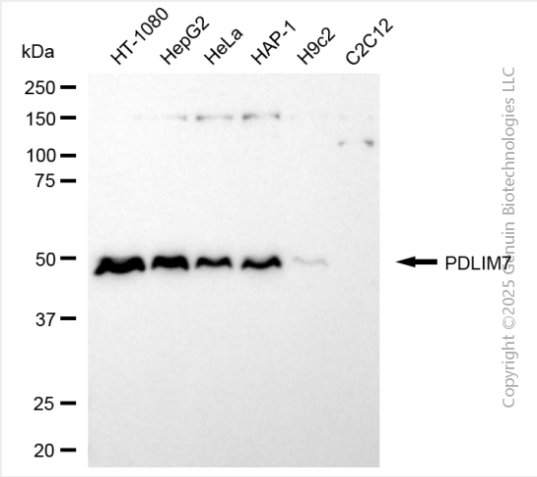
muscle, isoform 1 is more abundant in lung, spleen, leukocytes and fetal liver

KD-Validated Anti-PDLIM7 Rabbit Monoclonal Antibody - Protocols

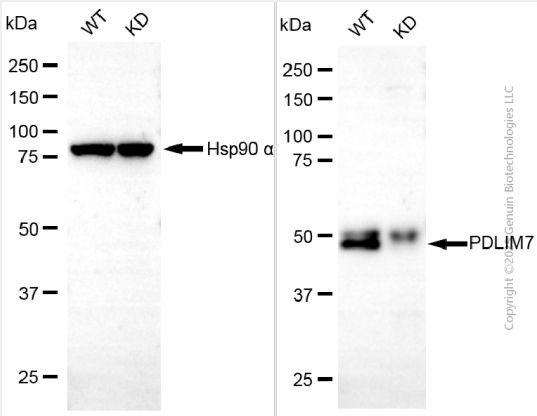
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-PDLIM7 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-PDLIM7 antibody (Cat#AGI2108). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-PDLIM7 antibody (Cat#AGI2108, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-PDLIM7 antibody (Cat#AGI2108). PDLIM7 expression in wild-type (WT) and PDLIM7 knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-PDLIM7 antibody (Cat#AGI2108,

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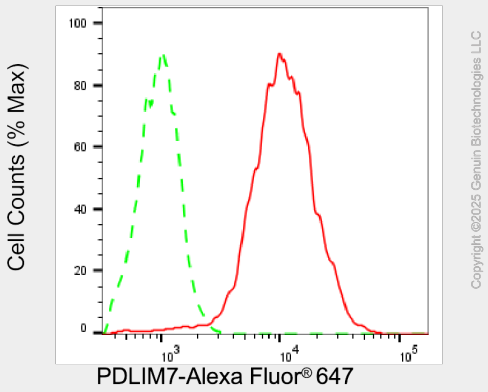
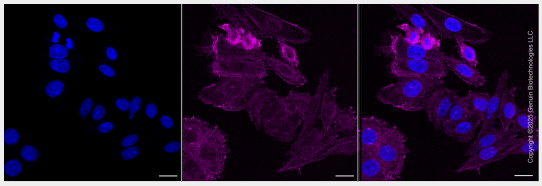
1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of NTHL1 expression in HAP-1 cells using anti-NTHL1 antibody (Cat# 64908, 1:2,000). Green, isotype control; red, NTHL1.



Immunocytochemical staining of HepG2 cells with anti-PDLIM7 antibody (Cat#AGI2108, 1:1,000). Nuclei were stained blue with DAPI; PDLIM7 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.