



# PDLIM5 (phospho Tyr251) Polyclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-Ab-16885                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Reactivity</b>                  | Human;Rat;Mouse;                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Applications</b>                | WB;ELISA;IHC                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>                   | PDLIM5                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Immunogen</b>                   | Synthesized phospho-peptide around the phosphorylation site of human PDLIM5 (phospho Tyr251)                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Specificity</b>                 | Phospho-PDLIM5 (Y251) Polyclonal Antibody detects endogenous levels of PDLIM5 protein only when phosphorylated at Y251.                                                                                                                                                                                                                                                                                                                                                   |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>                      | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purification</b>                | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                     |
| <b>Dilution</b>                    | WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>                    | 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                                                                                                                                                                                                                                                    |
| <b>Observed Band</b>               | 64kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Calculated Molecular Weight</b> | 64kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Cell Pathway</b>                | Cell junction, synapse, postsynaptic density . Cell junction, synapse, presynapse . Cell junction, synapse, postsynapse . Cytoplasm, cytosol . Detected both at presynaptic and postsynaptic sites, exclusively at excitatory synapses, but not inhibitory synapses, in hippocampal neurons. .                                                                                                                                                                            |
| <b>Tissue Specificity</b>          | Heart and skeletal muscle specific. Expression is commonly increased in the brain of patients with bipolar disorder, schizophrenia, and major depression.                                                                                                                                                                                                                                                                                                                 |
| <b>Function</b>                    | caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,disease:May play a role in genetic susceptibility to schizophrenia. PDLIM5 is commonly increased in the brain of patients with bipolar disorder, schizophrenia, and major depression.,function:May play an important role in the heart development by scaffolding PKC to the Z-disk region.,similarity:Contains 1 PDZ (DHR) domain., |



similarity:Contains 3 LIM zinc-binding domains.,subunit:Interacts with various PKC isoforms through the LIM domains. Interacts with actin and alpha-actinin through the PDZ domain.,tissue specificity:Heart and skeletal muscle specific.,

**Background**

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],

**matters needing attention**

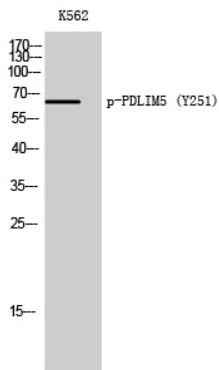
Avoid repeated freezing and thawing!

**Usage suggestions**

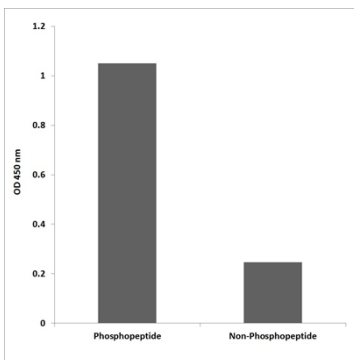
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



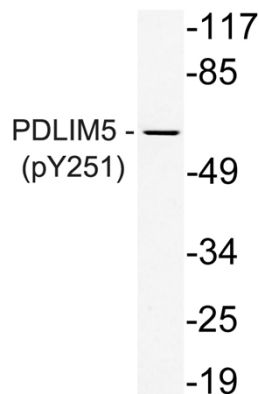
## Products Images



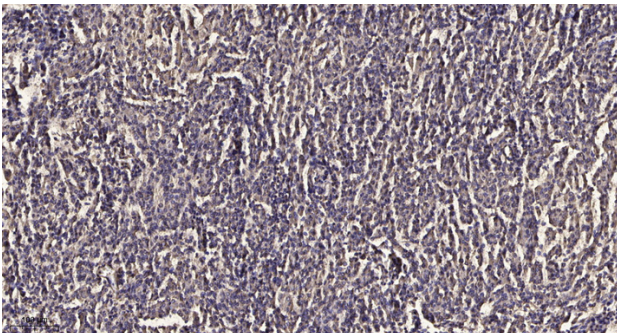
Western Blot analysis of K562 cells using Phospho-PDLIM5 (Y251) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PDLIM5 (Phospho-Tyr251) Antibody



Western blot analysis of lysate from K562 cells, using phospho-PDLIM5 (Phospho-Tyr251) antibody.



Immunohistochemical analysis of paraffin-embedded human meningioma. 1, Antibody was diluted at 1:200(4 ° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).