

PDLIM5 (phospho Tyr251) Polyclonal Antibody

YP0223 Catalog No:

Reactivity: Human; Rat; Mouse;

Applications: WB;ELISA;IHC

Target: PDLIM5

Gene Name: PDLIM5

Protein Name: PDZ and LIM domain protein 5

Q96HC4

Q8CI51

Human Gene Id: 10611

Human Swiss Prot

No:

Mouse Swiss Prot

No:

Synthesized phospho-peptide around the phosphorylation site of human Immunogen:

PDLIM5 (phospho Tyr251)

Phospho-PDLIM5 (Y251) Polyclonal Antibody detects endogenous levels of **Specificity:**

PDLIM5 protein only when phosphorylated at Y251.

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Formulation:

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000

The antibody was affinity-purified from rabbit antiserum by affinity-**Purification:**

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 64kD

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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],

Function:

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 alphaactinin through the PDZ domain., tissue specificity:Heart and skeletal muscle specific.,

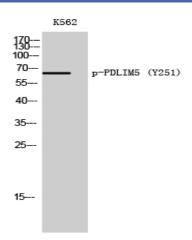
Subcellular Location:

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.

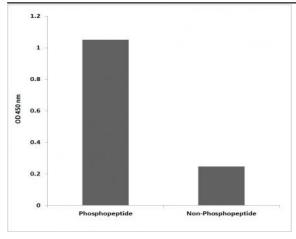
Expression:

Heart and skeletal muscle specific. Expression is commonly increased in the brain of patients with bipolar disorder, schizophrenia, and major depression.

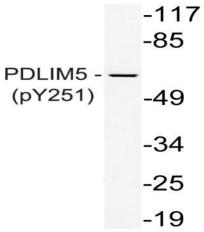
Products Images



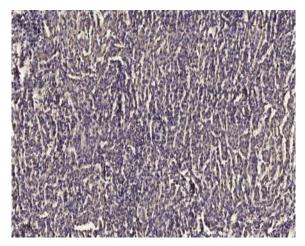
Western Blot analysis of K562 cells using Phospho-PDLIM5 (Y251) Polyclonal Antibody



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, uisng 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).