

PDLIM5 (phospho Tyr251) Polyclonal Antibody

Catalog No :	YP0223
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA;IHC
Target :	PDLIM5
Gene Name :	PDLIM5
Protein Name :	PDZ and LIM domain protein 5
Human Gene Id :	10611
Human Swiss Prot No :	Q96HC4
Mouse Swiss Prot No :	Q8CI51
Immunogen :	Synthesized phospho-peptide around the phosphorylation site of human PDLIM5 (phospho Tyr251)
Specificity :	Phospho-PDLIM5 (Y251) Polyclonal Antibody detects endogenous levels of PDLIM5 protein only when phosphorylated at Y251.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-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

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 alpha-actinin 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.

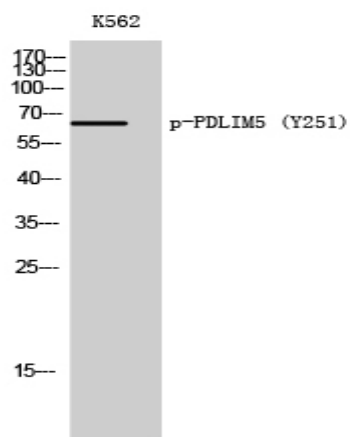
Sort : 11789

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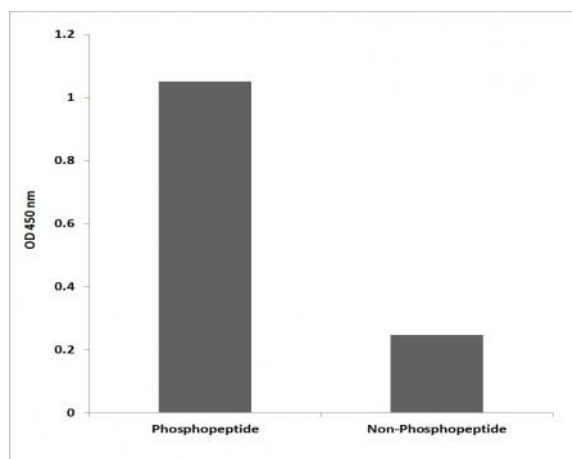
Host : Rabbit

Modifications : Phospho

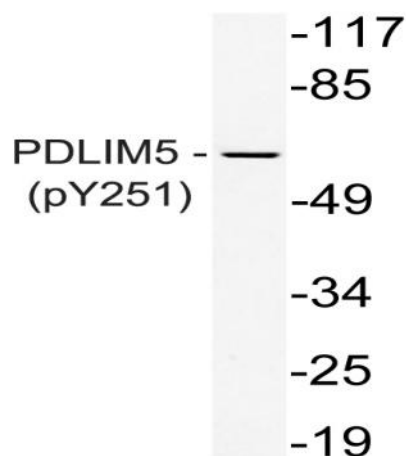
Products Images



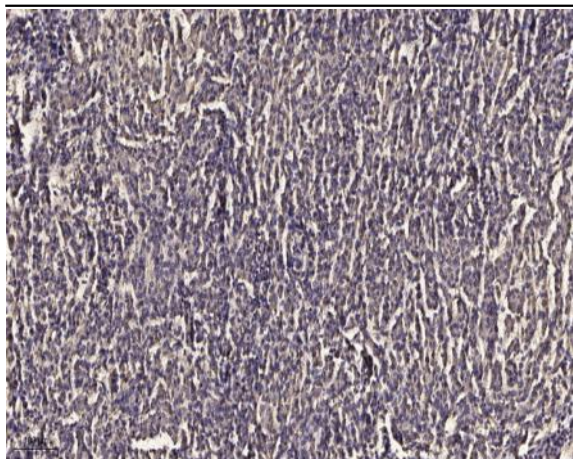
Western Blot analysis of K562 cells using Phospho-PDLIM5 (Y251) Polyclonal Antibody



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).