



# PDLIM5 (phospho Tyr251) Monoclonal Antibody

<b>Catalog No</b>	BYmab-16885
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	WB
<b>Gene Name</b>	PDLIM5
<b>Protein Name</b>	PDZ and LIM domain protein 5
<b>Immunogen</b>	Synthesized phospho-peptide around the phosphorylation site of human PDLIM5 (phospho Tyr251)
<b>Specificity</b>	Phospho-PDLIM5 (Y251) Monoclonal 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>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	PDLIM5; ENH; L9; PDZ and LIM domain protein 5; Enigma homolog; Enigma-like PDZ and LIM domains protein
<b>Observed Band</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

**Nanjing BYabscience technology Co.,Ltd**



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],

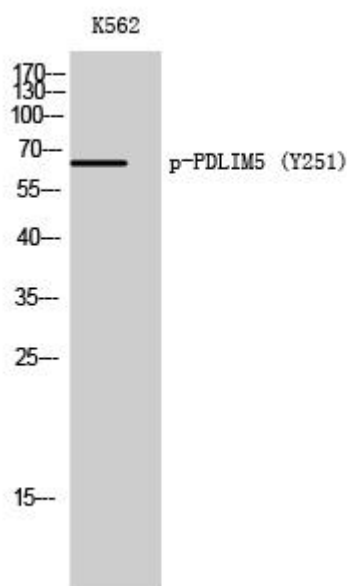
## matters needing attention

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 various cells using PDLIM5 (phospho Tyr251) Monoclonal Antibody