LDB3 Polyclonal Antibody

Catalog No	BYab-07327
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	LDB3 KIAA0613 ZASP
Protein Name	LIM domain-binding protein 3 (Protein cypher) (Z-band alternatively spliced PDZ-motif protein)
Immunogen	Synthesized peptide derived from human protein . at AA range: 41-90
Specificity	LDB3 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	79kD
Cell Pathway	Cytoplasm, perinuclear region . Cell projection, pseudopodium . Cytoplasm, cytoskeleton . Cytoplasm, myofibril, sarcomere, Z line . Localized to the cytoplasm around nuclei and pseudopodia of undifferentiated cells and detected throughout the myotubes of differentiated cells. Colocalizes with ACTN2 at the Z-lines.
Tissue Specificity	Expressed primarily in skeletal muscle and to a lesser extent in heart. Also detected in brain and placenta.
Function	disease:Defects in LDB3 are a cause of dilated cardiomyopathy with left ventricular non-compaction [MIM:601493]. Left ventricular non-compaction is characterized by numerous prominent trabeculations and deep intertrabecular recesses in hypertrophied and hypokinetic segments of the left ventricle.,disease:Defects in LDB3 are the cause of cardiomyopathy dilated type 1C (CMD1C) [MIM:601493]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.,disease:Defects in LDB3 are the cause of ZASP-related myofibrillar myopathy (MFM) [MIM:609452].

	It is an autosomal dominant MFM that is characterized by distal more than proximal muscle weakness with signs of cardiomyopathy and neuropathy.,function:May function as an adapter in striated muscle to couple p
Background	This gene encodes a PDZ domain-containing protein. PDZ motifs are modular protein-protein interaction domains consisting of 80-120 amino acid residues. PDZ domain-containing proteins interact with each other in cytoskeletal assembly or with other proteins involved in targeting and clustering of membrane proteins. The protein encoded by this gene interacts with alpha-actinin-2 through its N-terminal PDZ domain and with protein kinase C via its C-terminal LIM domains. The LIM domain is a cysteine-rich motif defined by 50-60 amino acids containing two zinc-binding modules. This protein also interacts with all three members of the myozenin family. Mutations in this gene have been associated with myofibrillar myopathy and dilated cardiomyopathy. Alternatively spliced transcript variants encoding different isoforms have been identified; all isoforms have N-terminal PDZ domains while only longer isoforms (
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.

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