10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

LDB3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17020c

Product Information

Application	WB, E
Primary Accession	O75112
Other Accession	NP_001073584.1, NP_001073583.1
Reactivity	Human
Predicted	Mouse, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36787
Calculated MW	77135
Antigen Region	235-262

Additional Information

Gene ID	11155
Other Names	LIM domain-binding protein 3, Protein cypher, Z-band alternatively spliced PDZ-motif protein, LDB3 (HGNC:15710)
Target/Specificity	This LDB3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 235-262 amino acids from the Central region of human LDB3.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	LDB3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LDB3 (HGNC:15710)
Function	May function as an adapter in striated muscle to couple protein kinase C-mediated signaling via its LIM domains to the cytoskeleton.

Cellular Location	Cytoplasm, perinuclear region. Cell projection, pseudopodium. Cytoplasm, cytoskeleton. Cytoplasm, myofibril, sarcomere, Z line. Note=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 Location	Expressed primarily in skeletal muscle and to a lesser extent in heart. Also detected in brain and placenta

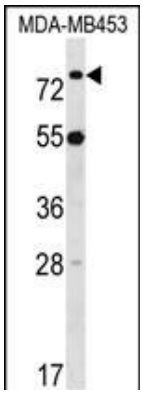
Background

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 (1, 2 and 5) have C-terminal LIM domains. [provided by RefSeq].

References

Lechuga, S., et al. Exp. Cell Res. 316(19):3124-3139(2010)
Zimmerman, R.S., et al. Genet. Med. 12(5):268-278(2010)
Vihola, A., et al. Acta Neuropathol. 119(4):465-479(2010)
Rampersaud, E., et al. Ann. Hum. Genet. 74(2):110-116(2010)
Aurino, S., et al. Acta Myol 27, 90-97 (2008) :

Images



LDB3 Antibody (Center) (Cat. #AP17020c) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the LDB3 antibody detected the LDB3 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.