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LDB3 Antibody (monoclonal) (M06)

Mouse monoclonal antibody raised against a full-length recombinant LDB3.
Catalog # AT2686a

Product Information

Application	WB, IF, E
Primary Accession	O75112
Other Accession	BC010929
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	3C8
Calculated MW	77135

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	LDB3 (AAH10929, 1 a.a. ~ 283 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	LDB3 Antibody (monoclonal) (M06) is for research use only and not for use in diagnostic or therapeutic procedures.

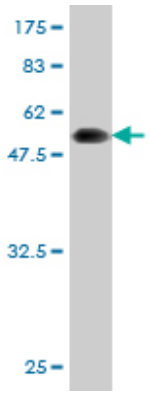
Background

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.

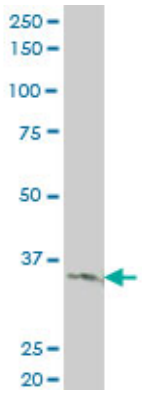
References

1.Z-disc-associated, Alternatively Spliced, PDZ Motif-containing Protein (ZASP) Mutations in the Actin-binding Domain Cause Disruption of Skeletal Muscle Actin Filaments in Myofibrillar Myopathy.Lin X, Ruiz J, Bajraktari I, Ohman R, Banerjee S, Gribble K, Kaufman JD, Wingfield PT, Griggs RC, Fischbeck KH, Mankodi AJ Biol Chem. 2014 May 9;289(19):13615-26. doi: 10.1074/jbc.M114.550418. Epub 2014 Mar 25.2.Impaired binding of ZASP/Cypher with phosphoglucomutase 1 is associated with dilated cardiomyopathy.Arimura T, Inagaki N, Hayashi T, Shichi D, Sato A, Hinohara K, Vatta M, Towbin JA, Chikamori T, Yamashina A, Kimura A.Cardiovasc Res. 2009 Jul 1;83(1):80-8. Epub 2009 Apr 17.

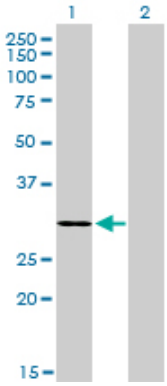
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (56.87 KDa) .



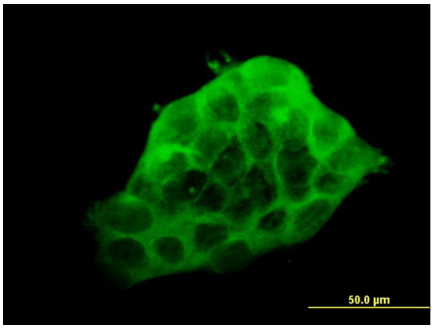
LDB3 monoclonal antibody (M06), clone 3C8 Western Blot analysis of LDB3 expression in A-431 ((Cat # AT2686a)

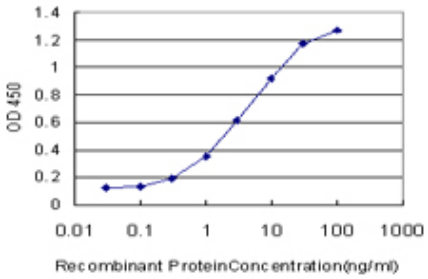


Western Blot analysis of LDB3 expression in transfected 293T cell line by LDB3 monoclonal antibody (M06), clone 3C8.

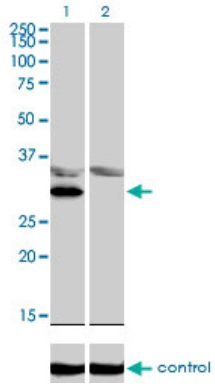
Lane 1: LDB3 transfected lysate(31 KDa).
Lane 2: Non-transfected lysate.

Immunofluorescence of monoclonal antibody to LDB3 on A-431 cell . [antibody concentration 10 ug/ml]





Detection limit for recombinant GST tagged LDB3 is approximately 0.03ng/ml as a capture antibody.



Western blot analysis of LDB3 over-expressed 293 cell line, cotransfected with LDB3 Validated Chimera RNAi ((Cat # AT2686a)

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