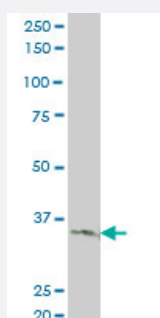


LDB3 monoclonal antibody (M06), clone 3C8

Catalog # H00011155-M06

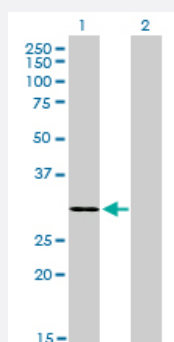
Size 100 ug

Applications



Western Blot (Cell lysate)

LDB3 monoclonal antibody (M06), clone 3C8 Western Blot analysis of LDB3 expression in A-431 (Cat # L015V1).

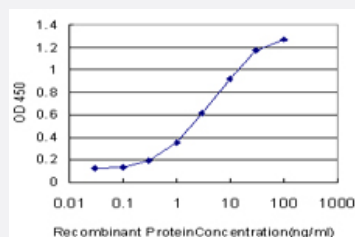


Western Blot (Transfected lysate)

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

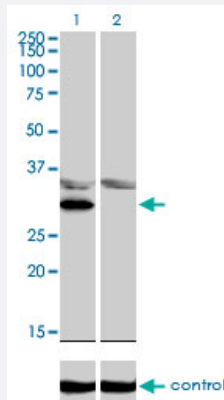
Lane 1: LDB3 transfected lysate(31 KDa).

Lane 2: Non-transfected lysate.



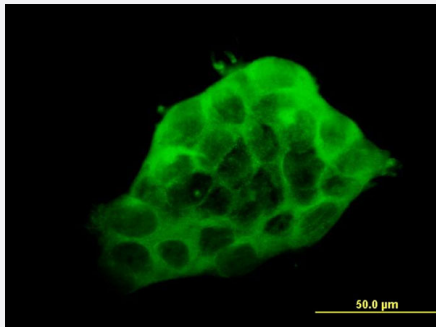
Sandwich ELISA (Recombinant protein)

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



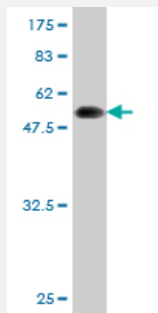
RNAi Knockdown (Antibody validated)

Western blot analysis of LDB3 over-expressed 293 cell line, cotransfected with LDB3 Validated Chimera RNAi (Cat # H00011155-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with LDB3 monoclonal antibody (M06), clone 3C8 (Cat # H00011155-M06). GAPDH (36.1 kDa) used as specificity and loading control.



Immunofluorescence

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



Western Blot detection against Immunogen (56.87 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant LDB3.
Immunogen	LDB3 (AAH10929, 1 a.a. ~ 283 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MSYSVTLTGPGPWGFRLLQGGKDFNMPLTISRITPGSKAAQSQLSQGDLVVAIDGVNTDTMTHLEA QNKIKSASYNLSLTLQKSKRPISTTAPPVQTPLPVIHQKVVVNSPANADYQERFNPSALKDSAL STHKPIEVKGLGGKATIIHAQYNTPIISMYSQDAIMDAIAGQAQAQGSDFSGSLPIKDLAVDSASPVY QAVIKSQNKPEDEADEWARRSSNLQSRSFRLAQMTGTEFMQDPDEEALRRSRERFETERNSPR FAKLRNWHHGLSAQILNVKS
Host	Mouse
Reactivity	Human

Interspecies Antigen Sequence	Mouse (95)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (56.87 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

LDB3 monoclonal antibody (M06), clone 3C8 Western Blot analysis of LDB3 expression in A-431 (Cat # L015V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

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.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of LDB3 over-expressed 293 cell line, cotransfected with LDB3 Validated Chimera RNAi (Cat # H00011155-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with LDB3 monoclonal antibody (M06), clone 3C8 (Cat # H00011155-M06). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

- Immunofluorescence

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

Gene Info — LDB3

Entrez GeneID [11155](#)

GeneBank Accession# [BC010929](#)

Protein Accession# [AAH10929](#)

Gene Name LDB3

Gene Alias CYPHER, FLJ35865, KIAA01613, KIAA0613, ORACLE, PDLIM6, ZASP, ldb3z1, ldb3z4

Gene Description LIM domain binding 3

Omim ID [605906](#) [609452](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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 and 2) have C-terminal LIM domains. [provided by RefSeq]

Other Designations OTTHUMP00000020008|OTTHUMP00000020009|PDZ and LIM domain 6

Publication Reference

- [Myopathy associated LDB3 mutation causes Z-disc disassembly and protein aggregation through PKCα and TSC2-mTOR downregulation.](#)

Pankaj Pathak, Yotam Blech-Hermoni, Kalpana Subedi, Jessica Mpamugo, Charissa Obeng-Nyarko, Rachel Ohman, Ilda Molloy, Malcolm Kates, Jessica Hale, Stacey Stauffer, Shyam K Sharan, Ami Mankodi.

Communications Biology 2021 Mar; 4(1):355.

Application: IP, Mouse, Mouse tibialis anterior muscle lysates

- [A Heterozygous Mutation in the Filamin C Gene Causes an Unusual Nemaline Myopathy With Ring Fibers.](#)

Teresinha Evangelista, Xavière Lornage, Pierre G Carlier, Guillaume Bassez, Guy Brochier, Anais Chanut, Emmanuelle Lacène, Mai-Thao Bui, Corinne Metay, Ursula Oppermann, Johann Böhm, Jocelyn Laporte, Norma B Romero.

Journal of Neuropathology and Experimental Neurology 2020 Aug; 79(8):908.

Application: IHC-Fr, Human, Human muscle biopsy

- [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 A.

The Journal of Biological Chemistry 2014 May; 289(19):13615.

Application: IP, Mouse, Muscle

- [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.

Cardiovascular Research 2009 Jul; 83(1):80.

Application: IF, Rat, Rat cardiomyocytes

Disease

- [Alzheimer Disease](#)
- [Cardiomyopathy](#)
- [Genetic Predisposition to Disease](#)
- [Muscular Dystrophies](#)