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Anti-LIM domain-binding protein 1 LDB1 Antibody

Catalog Number: A01977

About LDB1

LDB1 is also known as CLIM 2, LIM Domain Binding 1, NLI and Nuclear LIM Domain Interactor. The LIM-domain binding protein binds to the LIM domain of LIM homeodomain proteins which are transcriptional regulators of development. Nuclear LIM interactor (NLI) / LIM domain-binding protein 1 (LDB1) is located in the nuclei of neuronal cells during development, it is co-expressed with Isl1 in early motor neuron differentiation and has a suggested role in the Isl1 dependent development of motor neurons. It is suggested that these proteins act synergistically to enhance transcriptional efficiency by acting as co-factors for LIM homeodomain and Otx class transcription factors, both of which have essential roles in development.

Overview

Product Name	Anti-LIM domain-binding protein 1 LDB1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-LIM domain-binding protein 1 LDB1 Antibody (Catalog # A01977). Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ChIP, ELISA, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	P70662

Technical Details

Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a C-Terminal region of mouse LDB1 protein.
Predicted Reactive Species	Bovine, Pufferfish, Zebrafish
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG

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Form	Liquid (sterile filtered)
Concentration	1.80 mg/mL by UV absorbance at 280 nm
Purification	This affinity purified antibody is directed against the mouse LDB1protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from mouse, human, chimpanzee, dog, frog, chicken and rat based on 100% homology for the immunogen sequence. Cross-reactivity with LDB1 homologues from other sources has not been determined.
Suggested Dilutions	ELISA: 1:425,000 ChIP: User optimized WB: 1:500 - 1:3,000 This affinity purified antibody has been tested for use in ELISA, western blot and CHIP. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 43 kDa in size corresponding to LDB1 by western blotting in the appropriate cell lysate or extract. This antibody has been used in a ChIP assay using murine erythroleukemia (MEL) cells. The test sequence was the upstream enhancer of the GATA-1 gene; a putative LDB1 binding region as suggested by Orkin et al. Anti-LDB1 was used successfully in ChIP assays to precipitate a roughly 4-fold enrichment at the GATA1-HS1 enhancer element in DMSO-induced murine erythroleukemia cells. We suggest using 20µg for 10E8 cells for ChIP.

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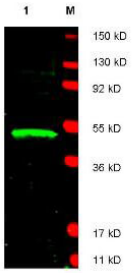
Anti-LIM domain-binding protein 1 LDB1 Antibody (A01977) Images



Western blot using Boster's affinity purified anti-LDB1 antibody shows detection of LDB1 protein in Jurkat whole cell lysate (W09-001-370). Approximately 30 µg of lysate was loaded prior to separation and transfer to nitrocellulose. Primary antibody was used at a 1:1,800 dilution in 5% BLOTTO in PBS reacted overnight at 4°C. The membrane was washed and reacted with a 1:20,000 dilution of DyLight™800 conjugated Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature (800 nm channel, green). Molecular weight estimation was made by comparison to prestained MW markers in lane M (700 nm channel, red). Fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

Anti-LIM domain-binding protein 1 LDB1 Antibody

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