

Anti-LDB1 (CLIM2) (RABBIT) Antibody
LDB1 Antibody
Catalog # ASR5191**Specification**

Anti-LDB1 (CLIM2) (RABBIT) Antibody - Product Information

Host	Rabbit
Conjugate	Unconjugated
Target Species	Mouse
Reactivity	Human
Clonality	Polyclonal
Application	WB, E, I, LCI
Application Note	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 20 µg for 10E8 cells for CHIP.
Physical State	Liquid (sterile filtered)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
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.
Preservative	0.01% (w/v) Sodium Azide

Anti-LDB1 (CLIM2) (RABBIT) Antibody - Additional Information**Gene ID** 16825**Other Names**
16825**Purity**
This affinity purified antibody is directed against the mouse LDB1 protein. 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.

Storage Condition

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.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-LDB1 (CLIM2) (RABBIT) Antibody - Protein Information

Name Ldb1

Synonyms Nli

Function

Binds to the LIM domain of a wide variety of LIM domain- containing transcription factors (PubMed:8918878, PubMed:9192866). May regulate the transcriptional activity of LIM-containing proteins by determining specific partner interactions (PubMed:16815859, PubMed:18539116, PubMed:8918878, PubMed:9192866, PubMed:9315627). Plays a role in the development of interneurons and motor neurons in cooperation with LHX3 and ISL1 (PubMed:12150931, PubMed:18539116, PubMed:8876198). Acts synergistically with LHX1/LIM1 in axis formation and activation of gene expression (PubMed:8918878). Acts with LMO2 in the regulation of red blood cell development, maintaining erythroid precursors in an immature state (PubMed:9391090).

Cellular Location

Nucleus Note=Colocalizes with SLK at leading edges (PubMed:19675209)

Tissue Location

Expressed in multiple adult tissues including heart, brain, liver, kidney, testis, lung and muscle, with expression highest in the pituitary gland and skin.

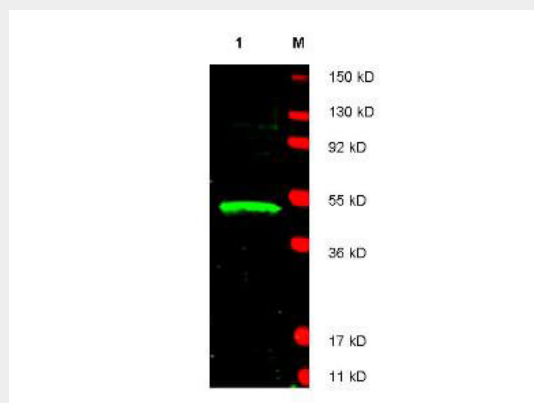
Anti-LDB1 (CLIM2) (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-LDB1 (CLIM2) (RABBIT) Antibody - Images



Western blot using Rockland's affinity purified anti-LDB1 antibody shows detection of LDB1 protein in Jurkat whole cell lysate (W09-001-370). Approximately 30 μ g of lysate was loaded prior to separation and transfer to nitrocellulose. Primary antibody was used at a 1:1,800 dilution in 5% BLOTTO (p/n B501-0500) 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 (p/n 611-145-122) 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-LDB1 (CLIM2) (RABBIT) Antibody - Background

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.