

Datasheet for ABIN103458

anti-LIM Domain Binding 1 Protein antibody (AA 361-373)[Go to Product page](#)**1** Image

Overview

| | |
|----------------------|---|
| Quantity: | 100 µg |
| Target: | LIM Domain Binding 1 Protein (LDB1) |
| Binding Specificity: | AA 361-373 |
| Reactivity: | Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This LIM Domain Binding 1 Protein antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA |

Product Details

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|------------------|--|
| Immunogen: | This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding aa 361-373 of mouse LDB1 protein. |
| Isotype: | IgG |
| Characteristics: | Concentration Definition: by UV absorbance at 280 nm |
| Sterility: | Sterile filtered |

Target Details

| | |
|-------------------|--|
| Target: | LIM Domain Binding 1 Protein (LDB1) |
| Alternative Name: | LDB1 (LDB1 Products) |
| Background: | LDB1 is also known as CLIM 2, LIM Domain Binding 1, NLI and Nuclear LIM Domain Interactor. |

Target Details

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.

Synonyms: LDB1, CLIM 2, LIM Domain Binding 1, NLI and Nuclear LIM Domain Interactor.

Gene ID: 16825, 6754520

UniProt: [P70662](#)

Pathways: [Stem Cell Maintenance](#), [Chromatin Binding](#)

Application Details

Application Notes: 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.

Restrictions: For Research Use only

Handling

Format: Liquid

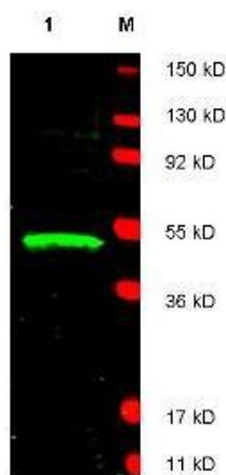
Concentration: 1.80 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C



Western Blotting

Image 1. Western blot using affinity purified anti-LDB1 antibody shows detection of LDB1 protein (arrowhead) in Jurkat whole cell lysate. 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 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 Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.