Datasheet for ABIN103458

anti-LIM Domain Binding 1 Protein antibody (C-Term)

1 Image

Go to Product page

Overview

Quantity:	100 µg
Target:	LIM Domain Binding 1 Protein (LDB1)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LIM Domain Binding 1 Protein antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Chromatin Immunoprecipitation (ChIP)

Product Details

Purpose:	LDB1 Antibody
Immunogen:	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. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against the mouse LDB1protein.
Characteristics:	Synonyms: rabbit anti-LDB1 antibody, rabbit anti-LDB1/CLIM2 antibody, rabbit anti-CLIM2 antibody, LDB-1, CLIM-2, LIM domain-binding protein 1, Carboxyl-terminal LIM domain-binding protein 2, LIM domain-binding factor CLIM2, Nuclear LIM interactor
Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity purification.

Product Details

Sterility:	Sterile filtered

Target Details

Target:	LIM Domain Binding 1 Protein (LDB1)
Alternative Name:	Ldb1 (LDB1 Products)
Background:	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.
Gene ID:	16825, 6754520
UniProt:	P70662
Pathways:	Stem Cell Maintenance, Chromatin Binding

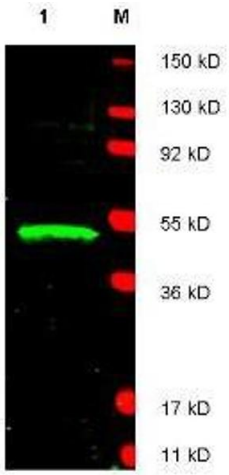
Application Details

Application Notes:	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. ChIP Dilution: User Optimized Western Blot Dilution: 1:500 - 1:3,000 ELISA Dilution: 1:425,000 Other: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.80 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
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:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Images



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 of800 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.