

Datasheet for 600-401-350**LDB1 Antibody****Overview**

Description:	Anti-LDB1 (CLIM2) (RABBIT) Antibody - 600-401-350
Item No.:	600-401-350
Size:	100 µg
Applications:	ELISA, WB, ChIP
Reactivity:	Human
Host Species:	Rabbit

Product Details

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.
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
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Ldb1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

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.
Purity/Specificity:	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.
Relevant Links:	• UniProtKB - P70662 • NCBI - 6754520 • GenelD - 16825

Application Details

Tested Applications:	ELISA, WB
Suggested Applications:	ChIP (Based on references)
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 20µg for 10E8 cells for ChIP.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ChIP:	User Optimized
ELISA:	1:425,000
WB:	1:500 - 1:3,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.80 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

Stabilizer: None

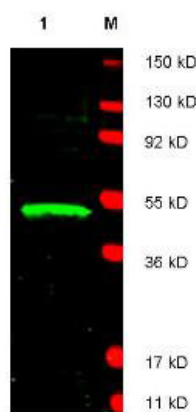
Shipping & Handling

Shipping Condition: Dry Ice

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.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

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 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 (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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.