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Datasheet for ABIN5006112

anti-LIM Domain Binding 1 Protein antibody (AA 10-100) (Alexa Fluor 680)

Overview

| | |
|----------------------|--|
| Quantity: | 100 µL |
| Target: | LIM Domain Binding 1 Protein (LDB1) |
| Binding Specificity: | AA 10-100 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This LIM Domain Binding 1 Protein antibody is conjugated to Alexa Fluor 680 |
| Application: | Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

Product Details

| | |
|-----------------------|---|
| Immunogen: | KLH conjugated synthetic peptide derived from human LDB1/CLIM-2 |
| Isotype: | IgG |
| Predicted Reactivity: | Human, Mouse, Rat, Dog, Horse, Chicken |
| Purification: | Purified by Protein A. |

Target Details

| | |
|-------------------|--|
| Target: | LIM Domain Binding 1 Protein (LDB1) |
| Alternative Name: | LDB1/CLIM-2 (LDB1 Products) |
| Background: | Synonyms: Carboxyl Terminal LIM Domain Binding 2, Carboxyl-terminal LIM domain-binding |

Target Details

protein 2, CLIM 2, CLIM-2, hLdb1, LDB-1, ldb1, LDB1_HUMAN, LIM Domain Binding 1, LIM domain binding factor CLIM2, LIM domain-binding factor CLIM2, LIM domain-binding protein 1, NLI, Nuclear LIM Domain Interactor, Nuclear LIM interactor antibodyxldb1.

Background: The LIM-only (LMO) proteins, LMO1 and LMO2, are nuclear factors that are characterized by a conserved LIM domain. The LIM domain consists of a cysteine-rich zinc-binding motif that is present in a variety of transcription factors, including the LIM homeobox (LHX) proteins expressed in the central nervous system and involved in cell differentiation. LMO1 and LMO2 are expressed in the adult CNS in a cell type-specific manner, where they are differentially regulated by neuronal activity and are involved in regulating the cellular differentiated phenotype of neurons. LMO2 lacks a specific DNA-binding homeobox domain but rather assembles into transcriptional regulatory complexes to mediate gene expression by interacting with the widely expressed nuclear LIM interactor (NLI). NLI, known also as CLIM-1, and the related protein CLIM-2, facilitate the formation of heteromeric LIM complexes and also enhance the nuclear retention of LIM proteins. LMO2 and the related protein LMO4 are expressed in thymic precursor cells. LMO4 is also expressed in mature T cells, cranial neural crest cells, somite, dorsal limb bud mesenchyme, motor neurons, and Schwann cell progenitors.

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

Application Details

Application Notes: IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

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

Handling

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months