

**Datasheet for 600-401-CJ3****LEMD3 Antibody****Overview**

|                      |                                            |
|----------------------|--------------------------------------------|
| <b>Description:</b>  | Anti-LEMD3 (RABBIT) Antibody - 600-401-CJ3 |
| <b>Item No.:</b>     | 600-401-CJ3                                |
| <b>Size:</b>         | 100 µg                                     |
| <b>Applications:</b> | ELISA, IF, IHC, WB                         |
| <b>Reactivity:</b>   | Human, Mouse                               |
| <b>Host Species:</b> | Rabbit                                     |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | LEMD3 (LEM domain-containing 3) is a lem-domain containing protein, also known as MAN1, whose loss of function results in disorders characterized by osteopoikilosis, Buschke-Ollendorff syndrome, and melorheostosis. LEMD3 is an inner nuclear membrane protein that interacts with BMP and activin-TGF-beta receptor-activated Smads and antagonizes TGF-beta signaling in human cells. |
| <b>Synonyms:</b>     | LEMD3 Antibody, MAN1, MAN1, Inner nuclear membrane protein Man1, LEM domain-containing protein 3                                                                                                                                                                                                                                                                                           |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                        |

**Target Details**

|                        |                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>      | LEMD3                                                                                                                                                                   |
| <b>Reactivity:</b>     | Human, Mouse                                                                                                                                                            |
| <b>Immunogen Type:</b> | Conjugated Peptide                                                                                                                                                      |
| <b>Immunogen:</b>      | Anti-LEMD3 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the C-terminus of human LEMD3. |

**Purity/Specificity:** Anti-LEMD3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least three isoforms of LEMD3 are known to exist; this antibody will detect all isoforms. LEMD3 antibody is predicted to not cross-react with LEMD1 and LEMD2

**Relevant Links:**

- [UniProtKB - Q9Y2U8](#)
- [GeneID - 23592](#)
- [NCBI - NP\\_055134](#)

## Application Details

**Tested Applications:** ELISA, IF, IHC, WB

**Application Note:** Anti-LEMD3 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 100 kDa in Western Blots of specific cell lysates and tissues.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 1:10,000

**IF:** 5 µg/mL

**IHC:** 2.5 µg/mL

**WB:** 1 µg/mL

## Formulation

**Physical State:** Liquid (sterile filtered)

**Concentration:** 1.0 mg/ml by UV absorbance at 280 nm

**Buffer:** 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

**Preservative:** 0.02% (w/v) Sodium Azide

**Stabilizer:** None

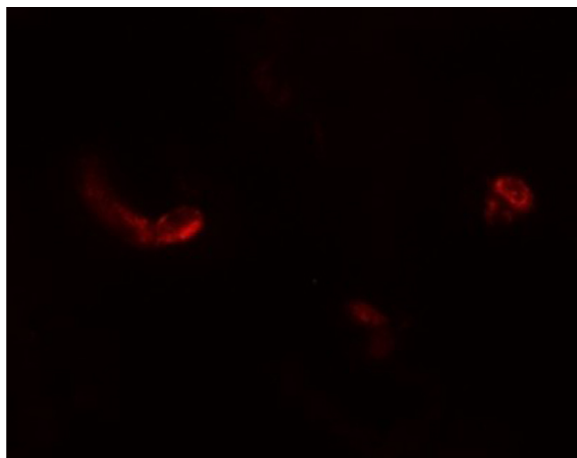
## Shipping & Handling

**Shipping Condition:** Wet Ice

**Storage Condition:** Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

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

## Images

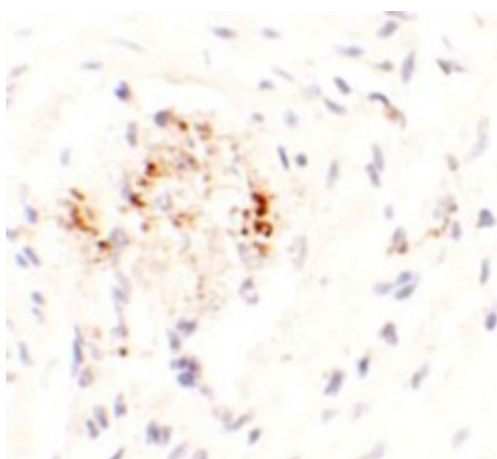


### Immunofluorescence Microscopy

Immunofluorescence of LEMD3.

Tissue: human colon tissue.

Primary Antibody: LEMD3 antibody at 5  $\mu\text{g/mL}$ .



### Immunohistochemistry

Immunohistochemistry of LEMD3.

Tissue: human colon tissue.

Primary Antibody: LEMD3 antibody at 2.5  $\mu\text{g/mL}$ .



### Western Blot

Western blot analysis of LEMD3.

Load: human colon tissue lysate.

Primary Antibody: LEMD3 antibody at 1  $\mu\text{g/mL}$ .

## 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.