

## Datasheet for 600-401-CNO

# LRRTM2 Antibody

### Overview

<b>Description:</b>	Anti-LRRTM2 (RABBIT) Antibody - 600-401-CNO
<b>Item No.:</b>	600-401-CNO
<b>Size:</b>	100 µg
<b>Applications:</b>	ELISA, IF, IHC, WB
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host Species:</b>	Rabbit

### Product Details

<b>Background:</b>	The Leucine-rich repeat transmembrane neuronal proteins (LRRTMs) are differentially expressed in the nervous system and were recently found to instruct presynaptic and mediate postsynaptic glutamatergic differentiation, with LRRTM1 and LRRTM2 most potent at inducing presynaptic differentiation. Each LRRTM protein is a type I transmembrane containing ten extracellular leucine-rich repeats and a short intracellular tail and has a developmentally regulated pattern distinct from all others. LRRTM2 interacts with PSD-95 and regulates the surface expression of AMPA receptors. LRRTM2 also functions as a neurexin ligand, binding both Neurexin 1-alpha and -beta, suggesting that LRRTM2-Neurexin1 interaction plays a critical role in regulatory excitatory synapse development.
<b>Synonyms:</b>	LRRTM2 Antibody, KIAA0416, LRRN2, Leucine-rich repeat transmembrane neuronal protein 2, Leucine-rich repeat neuronal 2 protein
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

### Target Details

<b>Gene Name:</b>	LRRTM2
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Immunogen Type:</b>	Conjugated Peptide

<b>Immunogen:</b>	Anti-LRRTM2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the C-terminus of human LRRTM2.
<b>Purity/Specificity:</b>	Anti-LRRTM2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. LRRTM2 antibody is predicted to not cross-react with other LRRTM family members.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - O43300</a></li><li>• <a href="#">GeneID - 26045</a></li><li>• <a href="#">NCBI - EAW62125</a></li></ul>

## Application Details

<b>Tested Applications:</b>	ELISA, IF, IHC, WB
<b>Application Note:</b>	Anti-LRRTM2 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 59 kDa in Western Blots of specific cell lysates and tissues.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:10,000
<b>IF:</b>	20 µg/mL
<b>IHC:</b>	2.5 µg/mL
<b>WB:</b>	1 µg/mL

## Formulation

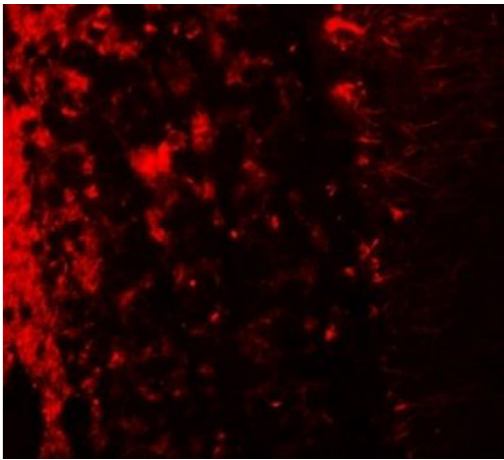
<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	1 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.02% (w/v) Sodium Azide
<b>Stabilizer:</b>	None

## Shipping & Handling

<b>Shipping Condition:</b>	Dry Ice
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<b>Storage Condition:</b>	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.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images

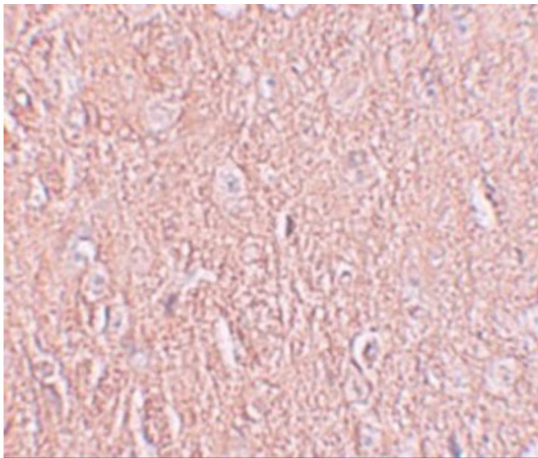


### Immunofluorescence Microscopy

Immunofluorescence of LRRTM2.

Tissue: human brain tissue.

Primary Antibody: LRRTM2 antibody at 20 µg/mL.

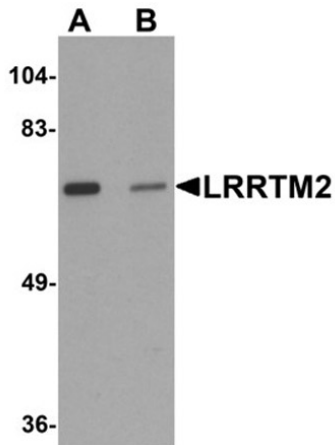


### Immunohistochemistry

Immunohistochemistry of LRRTM2.

Tissue: human brain tissue.

Primary Antibody: LRRTM2 antibody at 2.5 µg/mL.

**Western Blot**

Western blot analysis of LRRTM2.

Load: SK-N-SH cell lysate.

Primary Antibody: LRRTM2 antibody at 1  $\mu\text{g}/\text{mL}$  in (A) the absence and (B) the presence of blocking peptide.

**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.