

Datasheet for 600-401-CH8**LASS5 Antibody****Overview**

Description:	Anti-LASS5 (RABBIT) Antibody - 600-401-CH8
Item No.:	600-401-CH8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The LASS (longevity assurance homolog) family members represent a subgroup of the homeobox gene family and are highly conserved from yeasts to mammals. Six members of this family of proteins have been characterized (LASS1-6) and all are involved in ceramide synthesis during cell growth regulation and cancer differentiation. LASS5, also called Trh4, is a 392 amino acid endoplasmic reticulum, multi-pass membrane protein. Functioning as a dihydro-ceramide synthase, LASS5 is involved in the production of sphingolipids containing mainly one fatty acid donor (N-linked palmitoyl-ceramide) in a fumonisin B1-independent manner. It uses palmitoyl-CoA as an acyl donor and is involved in the synthesis of C14, C16 and C18-ceramide. LASS5 is the most abundantly expressed and predominant ceramide synthase isoform in lung epithelia. Recent studies show that LASS5 partially correct growth and apoptosis.
Synonyms:	LASS5 Antibody, Trh4, LASS5, Ceramide synthase 5, LAG1 longevity assurance homolog 5, CerS5
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CERS5
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-LASS5 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 18 amino acid synthetic peptide near the N-terminus of the human LASS5.
Purity/Specificity:	Anti-LASS5 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Multiple isoforms of LASS5 are known to exist. This antibody may cross-react with the highly homologous LASS6.
Relevant Links:	<ul style="list-style-type: none">• UniProtKB - Q8N5B7• GeneID - 91012• NCBI - NP_671723

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-LASS5 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 46 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 - 1:20,000
IF:	20 µg/mL
IHC:	2.5 µg/ml
WB:	1-2 µg/mL

Formulation

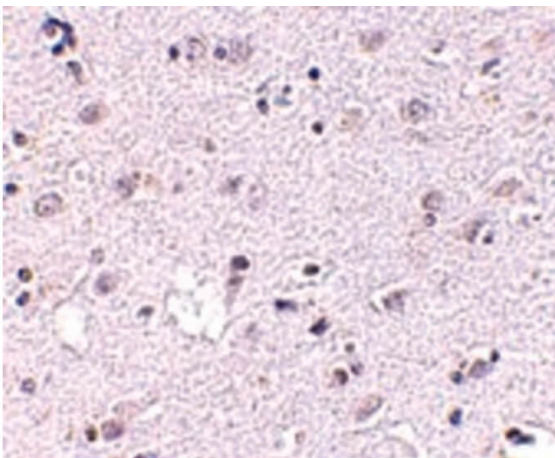
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
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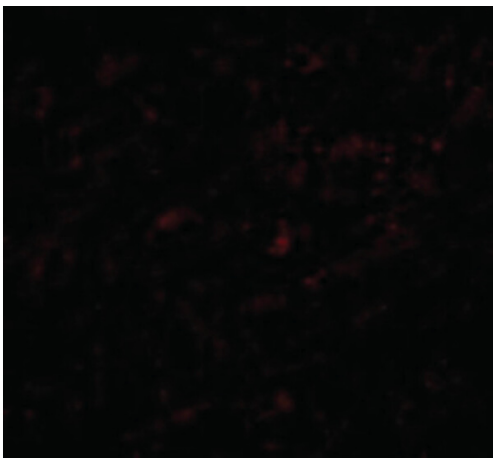
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



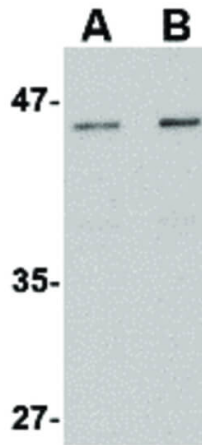
Immunohistochemistry

Immunohistochemistry of LASS5 antibody. Tissue: Human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: LASS5 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: LASS5 is nuclear and occasionally cytoplasmic. Staining: LASS5 as a precipitated red signal with hematoxylin purple nuclear counterstain.

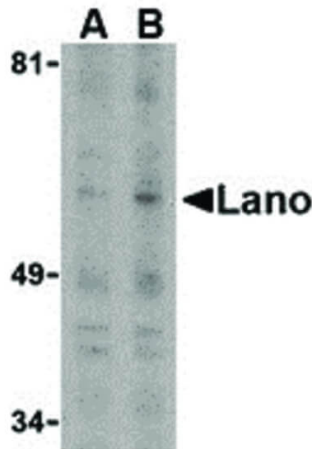


Immunofluorescence Microscopy

Immunofluorescence Microscopy of LASS5 antibody. Tissue: Human brain cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: LASS5 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: LASS5 as a red fluorescent signal.

**Western Blot**

Western Blot of LASS5 antibody. Lane A: Rat brain tissue lysate at 1 µg/mL. Lane B: Rat brain tissue lysate at 2 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 45.7 kDa, ~45 kDa for LASS5.

**Western Blot**

Western Blot of Lano antibody. Lane A: PC-3 whole cell lysate at 1 µg/mL. Lane B: PC-3 whole cell lysate at 2 µg/mL. Load: 35 µg per lane. Primary antibody: Lano antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 46 kDa, 65 kDa for Lano. Other band(s): Lano splice variants and isoforms.

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.