

Datasheet for 600-401-DQ5

PLEKHM1 Antibody

Overview

Description:	Anti-PLEKHM1 (RABBIT) Antibody - 600-401-DQ5
Item No.:	600-401-DQ5
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	PLEKHM1 is a member of the M family of Pleckstrin homolog domain-containing proteins, a group of proteins containing a RUN domain, two pleckstrin homology domains, and a cysteine-rich domain. It was identified through segregation analysis as a cause of osteopetrosis in humans. PLEKHM1 co-localizes with Rab7 to late endosomal/lysosomal vesicles in HEK293 and osteoclast-like cells, with this co-localization dependent on the prenylation of Rab7. Monocytes from a patient homozygous for a mutated form of PLEKHM1 differentiated into osteoclasts normally, but failed to form ruffled borders and showed little evidence of bone resorption when cultured on dentine discs. Another mutation of PLEKHM1 impaired vesicular acidification and increased TRACP secretion in osteoclasts, suggesting that PLEKHM1 has critical roles in endosomal maturation and may be important in osteoclast-osteoblast cross-talk.
Synonyms:	PLEKHM1 Antibody, B2, AP162, OPTB6, KIAA0356, Pleckstrin homology domain-containing family M member 1, 162 kDa adapter protein, PH domain-containing family M member 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PLEKHM1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-PLEKHM1 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide from near the N-terminus of human PLEKHM1.
Purity/Specificity:	Anti-PLEKHM1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with PLEKHM1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9Y4G2 • GeneID - 9842 • NCBI - Q9Y4G2

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-PLEKHM1 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 117 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:	20 µg/mL
IHC:	5 µg/mL
WB:	1 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 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

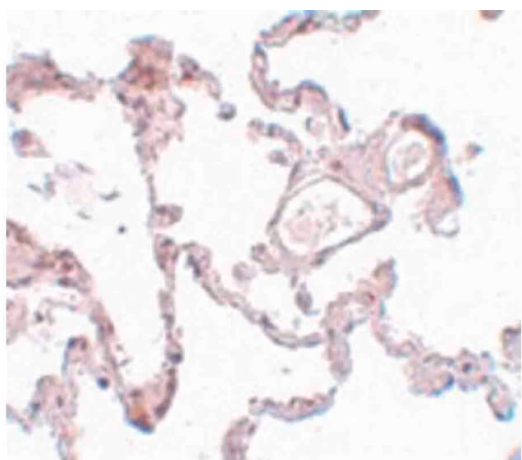
Shipping & Handling

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.

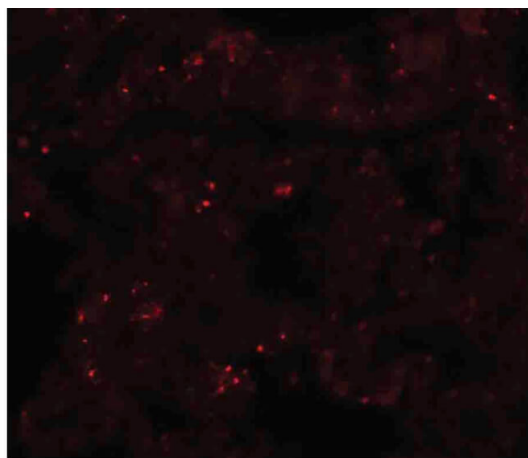
Expiration: Expiration date is one (1) year from date of receipt.

Images



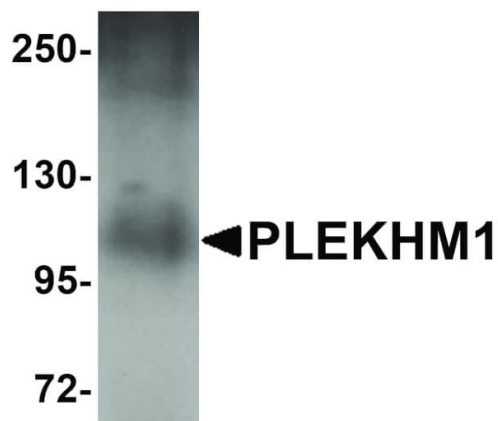
Immunohistochemistry

Immunohistochemistry of PLEKHM1 antibody. Tissue: Human lung tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: PLEKHM1 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: PLEKHM1 is cytoplasmic. Staining: PLEKHM1 as precipitated brown signal with blue nuclear counterstain.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of PLEKHM1 antibody. Tissue: Human lung tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: PLEKHM1 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. Localization: PLEKHM1 is cytoplasmic. Staining: PLEKHM1 as red fluorescent signal.

**Western Blot**

Western Blot of PLEKHM1 antibody. Lane 1: human lung tissue lysate with PLEKHM1 antibody at 1 µg/mL. 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: 117 kDa, 117 kDa for PLEKHM1. Other band(s): PLEKHM1 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.