

Datasheet for ABIN6991224
anti-PLEKHM1 antibody (N-Term)



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Overview

Quantity:	0.1 mg
Target:	PLEKHM1
Binding Specificity:	AA 50-100, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PLEKHM1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	PLEKHM1 antibody was raised against an 18 amino acid synthetic peptide from near the amino terminus of human PLEKHM1. The immunogen is located within amino acids 50 - 100 of PLEKHM1.
Isotype:	IgG
Purification:	PLEKHM1 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	PLEKHM1
Alternative Name:	PLEKHM1 (PLEKHM1 Products)
Background:	PLEKHM1 Antibody: PLEKHM1 is a member of the M family of Pleckstrin homolog domain-

Target Details

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.

Gene ID: 9842

UniProt: [Q9Y4G2](#)

Application Details

Application Notes: PLEKHM1 antibody can be used for detection of PLEKHM1 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.

Antibody validated: Western Blot in human samples, Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: PLEKHM1 Antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

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

Storage: -20 °C, 4 °C

Storage Comment: PLEKHM1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies

should not be exposed to prolonged high temperatures.