

PLEKHM1 Antibody

Catalog No: #25003

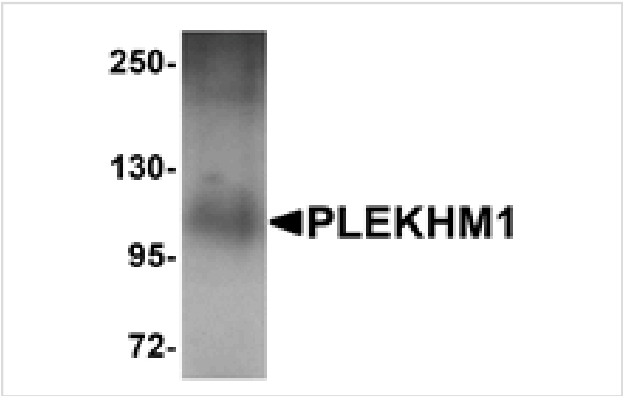


Orders: order@signalwayantibody.com
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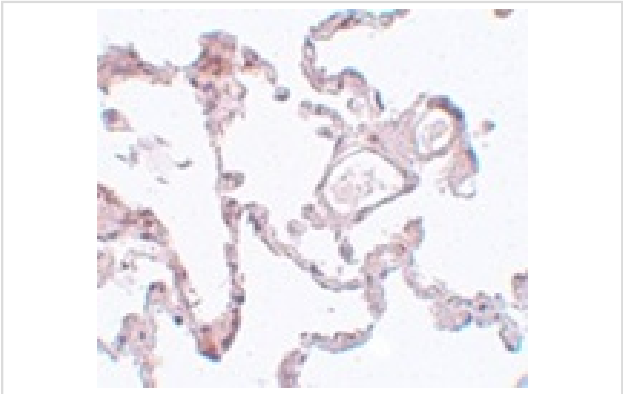
Description

Product Name	PLEKHM1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Hu
Immunogen Type	Peptide
Immunogen Description	Raised against an 18 amino acid peptide from near the amino terminus of human PLEKHM1.
Target Name	PLEKHM1
Other Names	Pleckstrin homolog domain containing family M member 1, OPTB6, B2, AP162
Accession No.	Q9Y4G2
Uniprot	Q9Y4G2
GeneID	9842;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for 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.

Images



Western blot analysis of PLEKHM1 in human lung tissue lysate with PLEKHM1 antibody at 1 ug/mL.



Immunohistochemistry of PLEKHM1 in human lung tissue with PLEKHM1 antibody at 5 ug/mL.

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.

Note: This product is for in vitro research use only