
PLEKHM1 Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 254173

Unit: 0.1 mg

Description:

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.

Isotype: Rabbit Ig

Applications: E, WB, IHC

Species Reactivity: H

Format: Each vial contains 0.1 ml IgG in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

Alternate Names: PLEKHM1; Pleckstrin homolog domain containing family M member 1; OPTB6; B2; AP162

Accession No.: Q9Y4G2

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within human PLEKHM1.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:00-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.