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PLEKHM1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PLEKHM1.
Catalog # AT3342a

Product Information

Application	E
Primary Accession	Q9Y4G2
Other Accession	BC064361
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	1C9
Calculated MW	117443

Additional Information

Gene ID	9842
Other Names	Pleckstrin homology domain-containing family M member 1, PH domain-containing family M member 1, 162 kDa adapter protein, AP162, PLEKHM1, KIAA0356
Target/Specificity	PLEKHM1 (AAH64361, 957 a.a. ~ 1056 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PLEKHM1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

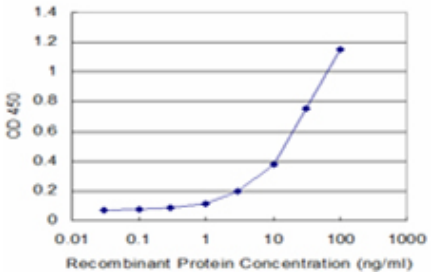
The protein encoded by this gene is essential for bone resorption, and may play a critical role in vesicular transport in the osteoclast. Mutations in this gene are associated with autosomal recessive osteopetrosis type 6 (OPTB6). Alternatively spliced transcript variants have been found for this gene.

References

Genome-wide association study confirms SNPs in SNCA and the MAPT region as common risk factors for Parkinson disease. Edwards TL, et al. Ann Hum Genet, 2010 Mar. PMID 20070850.A new heterozygous

mutation (R714C) of the osteopetrosis gene, pleckstrin homolog domain containing family M (with run domain) member 1 (PLEKHM1), impairs vesicular acidification and increases TRACP secretion in osteoclasts. Del Fattore A, et al. J Bone Miner Res, 2008 Mar. PMID 17997709.Involvement of PLEKHM1 in osteoclastic vesicular transport and osteopetrosis in incisors absent rats and humans. Van Wesenbeeck L, et al. J Clin Invest, 2007 Apr. PMID 17404618.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.A human protein-protein interaction network: a resource for annotating the proteome. Stelzl U, et al. Cell, 2005 Sep 23. PMID 16169070.

Images



Detection limit for recombinant GST tagged PLEKHM1 is approximately 1ng/ml as a capture antibody.