

PLEKHM1 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant PLEKHM1.****Catalog # AT3342a****Specification**

PLEKHM1 Antibody (monoclonal) (M01) - Product Information

Application	E
Primary Accession	O9Y4G2
Other Accession	BC064361
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	117443

PLEKHM1 Antibody (monoclonal) (M01) - 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.

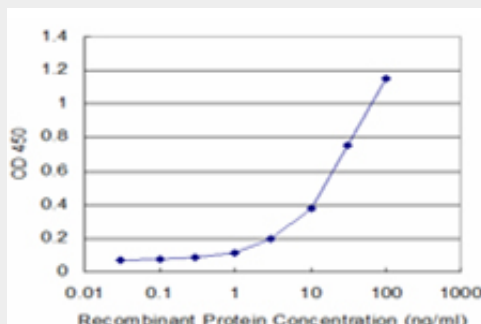
PLEKHM1 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PLEKHM1 Antibody (monoclonal) (M01) - Images



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

PLEKHM1 Antibody (monoclonal) (M01) - 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.

PLEKHM1 Antibody (monoclonal) (M01) - 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.