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MPPE1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18577b

Product Information

Application	WB, E
Primary Accession	Q53F39
Other Accession	Q9GMS6, NP_075563.3
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34016
Calculated MW	45141
Antigen Region	261-289

Additional Information

Gene ID	65258
Other Names	Metallophosphoesterase 1, 31--, Post-GPI attachment to proteins factor 5, MPPE1, PGAP5
Target/Specificity	This MPPE1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 261-289 amino acids from the C-terminal region of human MPPE1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MPPE1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MPPE1 (HGNC:15988)
Function	Metallophosphoesterase that catalyzes the removal of a side- chain ethanolamine-phosphate (EtNP) from the second mannose of the GPI- anchor

	protein intermediate (PubMed:19837036, PubMed:29374258). Participates in the glycan remodeling steps of GPI-anchor maturation to allow an efficient transport of GPI-anchor proteins from the endoplasmic reticulum to the Golgi (PubMed:19837036, PubMed:29374258).
Cellular Location	Endoplasmic reticulum-Golgi intermediate compartment membrane; Multi-pass membrane protein. Note=Also localizes to endoplasmic reticulum exit site.
Tissue Location	Expressed in brain..

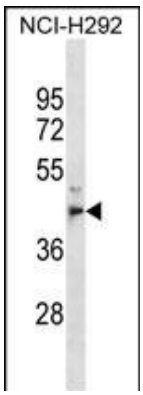
Background

Metallophosphoesterase required for transport of GPI-anchor proteins from the endoplasmic reticulum to the Golgi. Acts in lipid remodeling steps of GPI-anchor maturation by mediating the removal of a side-chain ethanolamine-phosphate (EtNP) from the second Man (Man2) of the GPI intermediate, an essential step for efficient transport of GPI-anchor proteins.

References

Lohoff, F.W., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (3), 830-836 (2010) :
Fujita, M., et al. Cell 139(2):352-365(2009)
Yosifova, A., et al. J Affect Disord 117 (1-2), 87-97 (2009) :
Fortna, A., et al. PLoS Biol. 2 (7), E207 (2004) :
Vuoristo, J.T., et al. Cytogenet. Cell Genet. 95 (1-2), 60-63 (2001) :

Images



MPPE1 Antibody (C-term) (Cat. #AP18577b) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the MPPE1 antibody detected the MPPE1 protein (arrow).