

Rabbit TMEM106B Polyclonal Antibody | anti-TMEM106B antibody

TMEM106B Antibody (C-Term)

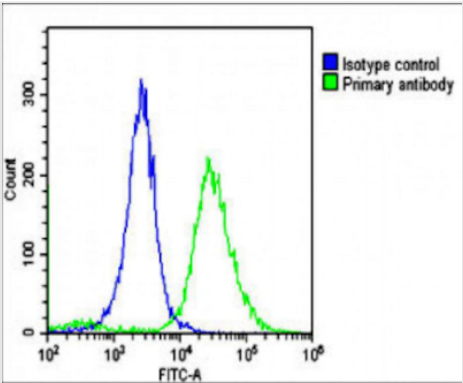
CATALOG # AAA290848	HOST Rabbit	REACTIVITY Human, MousePredicted: Bovine, Rat	APPLICATIONS Flow Cytometry, Functional Assay, ELISA, Western Blot
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PRODUCT SYNONYMS

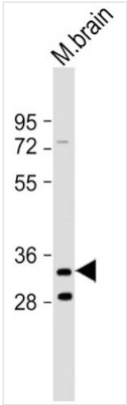
TMEM106B; Polyclonal Antibody; TMEM106B Antibody (C-Term); Transmembrane protein 106B; anti-TMEM106B antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse Predicted: Bovine, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	This TMEM106B antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 218-252 amino acids from human TMEM106B.
Form/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.
Sequence Length	274
Applicable Applications for anti-TMEM106B antibody	FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)
Function	In neurons, involved in the transport of late endosomes/lysosomes (PubMed:25066864). May be involved in dendrite morphogenesis and maintenance by regulating lysosomal trafficking (PubMed:25066864). May act as a molecular brake for retrograde transport of late endosomes/lysosomes, possibly via its interaction with MAP6 (By similarity). In motoneurons, may mediate the axonal transport of lysosomes and axonal sorting at the initial segment (By similarity). It remains unclear whether TMEM106B affects the transport of moving lysosomes in the anterograde or retrograde direction in neurites and whether it is important in the sorting of lysosomes in axons or in dendrites (By similarity). In neurons, may also play a role in the regulation of lysosomal size and responsiveness to stress (PubMed:25066864). Required for proper lysosomal acidification (By similarity).
Cellular Location	Late endosome membrane; Single-pass type II membrane protein. Lysosome membrane; Single-pass type II membrane protein. Membrane; Lipid-anchor
Tissue Location	Expressed in frontal cortex.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
Overlay histogram showing Hela cells stained with AAA290848(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AAA290848, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OE188374) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1ug/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.



WB (Western Blot)
Anti-TMEM106B Antibody (C-Term) at 1:2000 dilution + Mouse brain lysateLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.Predicted band size : 31 kDaBlocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Product Categories/Family for anti-TMEM106B antibody	Primary Antibodies; Neuroscience
References	Ota T.,et al.Nat. Genet. 36:40-45 (2004). Suzuki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases. Scherer S.W.,et al.Science 300:767-772 (2003). Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases. Hillier L.W.,et al.Nature 424:157-164 (2003).

NCBI AND UNIPROT INFORMATION

NCBI GI #	197116389
NCBI GeneID	54664
NCBI Accession #	NP_001127704.1
NCBI GenBank Nucleotide #	NM_001134232.1
UniProt Accession #	Q9NUM4; Q53FL9; Q8N4L0; A4D108
Molecular Weight	31127
NCBI Official Full Name	transmembrane protein 106B
NCBI Official Synonym Full Names	transmembrane protein 106B
NCBI Official Symbol	TMEM106B
NCBI Protein Information	transmembrane protein 106B
UniProt Protein Name	Transmembrane protein 106B
UniProt Gene Name	TMEM106B

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.