

Human TMEM59 Antibody

Monoclonal Mouse IgG₁ Clone # 816004 Catalog Number: MAB9118

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human TMEM59 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 816004
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E.coli-derived recombinant human TMEM59 Met1-Asn220 Accession # Q9BXS4
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

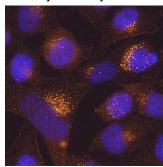
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Immunocytochemistry	5-25 μg/mL	See Below

DATA

Immunocytochemistry



TMEM59 in HeLa Human Cell Line.
TMEM59 was detected in immersion fixed
HeLa human cervical epithelial carcinoma
cell line using Mouse Anti-Human TMEM59
Monoclonal Antibody (Catalog # MAB9118)
at 25 µg/mL for 3 hours at room temperature.
Cells were stained using the
NorthernLights™ 557-conjugated AntiMouse IgG Secondary Antibody (red;
Catalog # NL007) and counterstained with
DAPI (blue). Specific staining was localized
to cytoplasm. View our protocol for
Fluorescent ICC Staining of Cells on
Coverslips.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
	 12 months from date of receipt, -20 to -70 °C as supplied. 	
	 1 month, 2 to 8 °C under sterile conditions after reconstitution. 	
	 6 months, -20 to -70 °C under sterile conditions after reconstitution. 	

BACKGROUND

TMEM59 is a 324 aa protein with a 21 amino acid transmembrane domain which localizes to the Golgi compartment where it modulates the O-glycosylation and complex N-glycosylation maturation steps of several proteins including APP, BACE1, SEAP and PRNP. It may retain APP in the Golgi and inhibits amyloid beta generation as well APP cleavage by alpha and beta secretases. TMEM59 also contains a 19 aa peptide that acts as a regulator of autophagy in response to bacterial infection by promoting LC3 activation through interaction with ATG16L1, targeting its own endosomal compartment to lysosomes in response to aggregation during S.areus infection.

References:

- 1. Ullrich S, et al, J Biol Chem. 2010 Jul 2;285(27):20664
- 2. Boada-Romero E, et al, EMBO J. 2013 Feb 20;32(4):566

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