

TMEM9 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP17754c**Specification**

TMEM9 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q9P0T7](#)**TMEM9 Antibody (Center) Blocking peptide - Additional Information**

Gene ID 252839

Other Names

Transmembrane protein 9, Dermal papilla-derived protein 4, TMEM9, DERP4

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TMEM9 Antibody (Center) Blocking peptide - Protein InformationName TMEM9 ([HGNC:18823](#))**Function**

Transmembrane protein that binds to and facilitates the assembly of lysosomal proton-transporting V-type ATPase (v-ATPase), resulting in enhanced lysosomal acidification and trafficking (PubMed: [30374053](http://www.uniprot.org/citations/30374053)). By bringing the v-ATPase accessory protein ATP6AP2 and the v-ATPase subunit ATP6V0D1 together, allows v-ATPase complex formation and activation (PubMed: [30374053](http://www.uniprot.org/citations/30374053)). TMEM9-controlled vesicular acidification induces hyperactivation of Wnt/beta-catenin signaling, involved in development, tissue homeostasis and tissue regeneration, through lysosomal degradation of adenomatous polyposis coli/APC (PubMed: [30374053](http://www.uniprot.org/citations/30374053), PubMed: [32380568](http://www.uniprot.org/citations/32380568)). In the liver, involved in hepatic regeneration (PubMed: [32380568](http://www.uniprot.org/citations/32380568)).

Cellular Location

Lysosome membrane; Single-pass type I membrane protein. Late endosome membrane; Single-pass type I membrane protein. Endosome, multivesicular body membrane; Single-pass type I membrane protein

Tissue Location

Highly expressed in adrenal gland, thyroid gland, testis, ovary and prostate (PubMed:12359240). Moderate expression in trachea, spinal cord, stomach, colon, small intestine and spleen (PubMed:12359240, PubMed:30374053). Low expression in bone marrow, lymph node, thymus and peripheral blood lymphocytes (PubMed:12359240) Expression is detected in hematopoietic cell lines including those of myeloid, erythroid, B- and T-cell origin (PubMed:12359240)

TMEM9 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

TMEM9 Antibody (Center) Blocking peptide - Images**TMEM9 Antibody (Center) Blocking peptide - Background**

TMEM9 may be involved in intracellular transport.

TMEM9 Antibody (Center) Blocking peptide - References

Rose, J. Phd, et al. Mol. Med. (2010) In press :Dodeller, F., et al. J. Biol. Chem. 283(31):21487-21494(2008)Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)Kveine, M., et al. Biochem. Biophys. Res. Commun. 297(4):912-917(2002)