

STARD3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP14986b**Specification**

STARD3 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q14849](#)**STARD3 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 10948

Other Names

StAR-related lipid transfer protein 3, Metastatic lymph node gene 64 protein, MLN 64, Protein CAB1, START domain-containing protein 3, StARD3, STARD3, CAB1, MLN64

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.

STARD3 Antibody (C-term) Blocking Peptide - Protein InformationName STARD3 ([HGNC:17579](#))**Function**

Sterol-binding protein that mediates cholesterol transport from the endoplasmic reticulum to endosomes (PubMed: [11053434](http://www.uniprot.org/citations/11053434), PubMed: [15930133](http://www.uniprot.org/citations/15930133), PubMed: [22514632](http://www.uniprot.org/citations/22514632), PubMed: [28377464](http://www.uniprot.org/citations/28377464), PubMed: [33124732](http://www.uniprot.org/citations/33124732)). The sterol transport mechanism is triggered by phosphorylation of FFAT motif that leads to membrane tethering between the endoplasmic reticulum and late endosomes via interaction with VAPA and VAPB (PubMed: [24105263](http://www.uniprot.org/citations/24105263), PubMed: [28377464](http://www.uniprot.org/citations/28377464), PubMed: [33124732](http://www.uniprot.org/citations/33124732)). Acts as a lipid transfer protein that redirects sterol to the endosome at the expense of the cell membrane and favors membrane formation inside endosomes (PubMed: [28377464](http://www.uniprot.org/citations/28377464)). May also mediate cholesterol transport between other membranes, such as mitochondria membrane or cell membrane (PubMed: [12070139](http://www.uniprot.org/citations/12070139))

target="_blank">12070139, PubMed:19965586). However, such results need additional experimental evidences; probably mainly mediates cholesterol transport from the endoplasmic reticulum to endosomes (PubMed:28377464). Does not activate transcriptional cholesterol sensing (PubMed:28377464). Able to bind other lipids, such as lutein, a xanthophyll carotenoids that form the macular pigment of the retina (PubMed:21322544).

Cellular Location

Late endosome membrane; Multi-pass membrane protein. Note=Localizes to contact sites between the endoplasmic reticulum and late endosomes: associates with the endoplasmic reticulum membrane via interaction with VAPA, VAPB or MOSPD2

Tissue Location

Expressed in retina..

STARD3 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

STARD3 Antibody (C-term) Blocking Peptide - Images

STARD3 Antibody (C-term) Blocking Peptide - Background

This gene encodes a member of a subfamily of lipidtrafficking proteins that are characterized by a C-terminalsteroidogenic acute regulatory domain and an N-terminal metastaticlymph node 64 domain. The encoded protein localizes to themembranes of late endosomes and may be involved in exportingcholesterol. Alternative splicing results in multiple transcriptvariants.

STARD3 Antibody (C-term) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care (2010) In press :Charman, M., et al. J. Lipid Res. 51(5):1023-1034(2010)Cai, W., et al. Int. J. Mol. Med. 25(4):573-580(2010)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Alpy, F., et al. J. Biol. Chem. 276(6):4261-4269(2001)