

MARCH1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14345c**Specification**

MARCH1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q8TCQ1](#)**MARCH1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 55016**Other Names**

E3 ubiquitin-protein ligase MARCH1, 632-, Membrane-associated RING finger protein 1, Membrane-associated RING-CH protein 1, MARCH-I, RING finger protein 171, MARCH1, RNF171

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.

MARCH1 Antibody (Center) Blocking Peptide - Protein Information**Name** MARCHF1 ([HGNC:26077](#))**Synonyms** MARCH1, RNF171**Function**

E3 ubiquitin-protein ligase that mediates ubiquitination of TFRC, CD86, FAS and MHC class II proteins, such as HLA-DR alpha and beta, and promotes their subsequent endocytosis and sorting to lysosomes via multivesicular bodies. By constitutively ubiquitinating MHC class II proteins in immature dendritic cells, down-regulates their cell surface localization thus sequestering them in the intracellular endosomal system.

Cellular Location

Golgi apparatus, trans-Golgi network membrane {ECO:0000250|UniProtKB:Q6NZQ8}; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein. Early endosome membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

Tissue Location

Expressed in antigen presenting cells, APCs, located in lymph nodes and spleen. Also expressed in

lung. Expression is high in follicular B-cells, moderate in dendritic cells and low in splenic T-cells.

MARCH1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MARCH1 Antibody (Center) Blocking Peptide - Images

MARCH1 Antibody (Center) Blocking Peptide - Background

MARCH1 is a member of the MARCH family of membrane-bound E3 ubiquitin ligases (EC 6.3.2.19). MARCH proteins add ubiquitin (see MIM 191339) to target lysines in substrate proteins, thereby signaling their vesicular transport between membrane compartments. MARCH1 downregulates the surface expression of major histocompatibility complex (MHC) class II molecules (see MIM 142880) and other glycoproteins by directing them to the late endosomal/lysosomal compartment (Bartee et al., 2004 [PubMed 14722266]; Thibodeau et al., 2008 [PubMed 18389477]; De Gassart et al., 2008 [PubMed 18305173]).

MARCH1 Antibody (Center) Blocking Peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) ; Thibodeau, J., et al. Eur. J. Immunol. 38(5):1225-1230 (2008) ; De Gassart, A., et al. Proc. Natl. Acad. Sci. U.S.A. 105(9):3491-3496 (2008) ; Bartee, E., et al. J. Virol. 78(3):1109-1120 (2004)