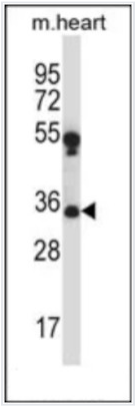
MARCH1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MARCH1, Polyclonal Antibody
Full Product Name	MARCH1 Antibody (Center)
Product Gene Name	anti-MARCH1 antibody
Product Synonym Names	E3 ubiquitin-protein ligase MARCH1; 632-; Membrane-associated RING finger protein 1; Membrane-associated RING-CH protein I; MARCH-I; RING finger protein 171; MARCH1; RNF171
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Specificity	This MARCH1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 163-191 amino acids from the Central region of human MARCH1.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	3/1/2016 peptide (MBS9220694) is used for blocking the activity of 3/1/2016 antibody (MBS9208799)
Molecular Weight	32308
Immunogen Sequence Positions	163-191
OMIM	613331
3D Structure	ModBase 3D Structure for Q8TCQ1
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.
Product Categories/Family for anti-MARCH1 antibody	Cell Biology; Immunology
Applications Tested/Suitable for anti-MARCH1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-MARCH1 antibody	WB~~1:1000

Related Product Information for anti-MARCH1 antibody	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]).
Product References and Citations for anti-MARCH1 antibody	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)
Other Notes	Small volumes of anti-MARCH1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MARCH1 purchase	MBS9208799 is an antibody targeting MARCH1. Also known as MARCH1 Antibody (Center). Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-MARCH1 antibody
MARCH1 Antibody (Center) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the MARCH1 antibody detected the MARCH1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MARCH1. It may not necessarily be applicable to this product.

NCBI GI #	261823980
NCBI GeneID	55016
NCBI Accession #	NP_001159845.1
NCBI Related Accession #	NP_060393.1
UniProt Primary Accession #	Q8TCQ1
UniProt Secondary Accession #	Q9NWR0; D3DP29
UniProt Related Accession #	Q8TCQ1
GenBank Nucleotide #	NM_001166373.1
NCBI Official Full Name	E3 ubiquitin-protein ligase MARCH1 isoform 1
NCBI Official Synonym Full Names	membrane-associated ring finger (C3HC4) 1, E3 ubiquitin protein ligase
NCBI Official Symbol	MARCH1
NCBI Official Synonym Symbols	RNF171; MARCH-I
UniProt Protein Name	E3 ubiquitin-protein ligase MARCH1

UniProt Synonym Protein Names	Membrane-associated RING finger protein 1; Membrane-associated RING-CH protein I; MARCH-I; RING finger protein 171
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	MARCH1
UniProt Synonym Gene Names	RNF171; MARCH-I
UniProt Entry Name	MARH1_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase MARCH1
UniProt Comments for MARCH1	MARCH1: 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. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 6.3.2.19; Ubiquitin conjugating system; Ubiquitin ligase; EC 6.3.2.-; Membrane protein, integral; Membrane protein, multi-pass; Ligase Chromosomal Location of Human Ortholog: 4q32.2 Cellular Component: endoplasmic reticulum membrane; cytoplasmic vesicle membrane; lysosomal membrane; early endosome membrane; late endosome membrane; lysosome; integral to membrane; plasma membrane; trans-Golgi network membrane; endosome Molecular Function: zinc ion binding; ubiquitin-protein ligase activity; MHC protein binding; ligase activity Biological Process: protein polyubiquitination; antigen processing and presentation of peptide antigen via MHC class II; immune response
Research Articles on MARCH1	**1.** findings highlight the complex regulation of MARCH1 trafficking in the endocytic pathway as well as the intricate interactions between its cytoplasmic tails.
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