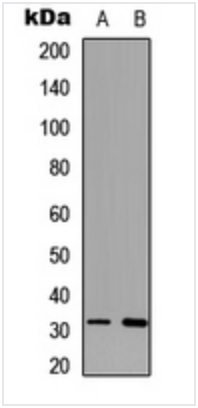
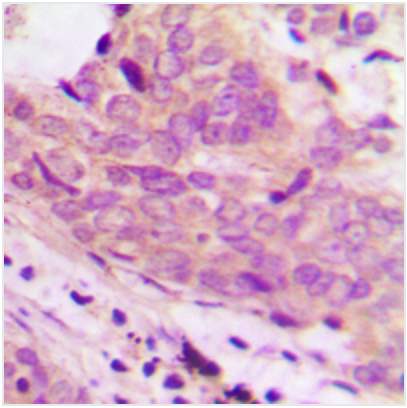
MARCH1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MARCH1, Polyclonal Antibody
Full Product Name	Rabbit anti-MARCH1 Antibody
Product Gene Name	anti-MARCH1 antibody
Product Synonym Names	RNF171; E3 ubiquitin-protein ligase MARCH1; Membrane-associated RING finger protein 1; Membrane-associated RING-CH protein I; MARCH-I; RING finger protein 171
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	32,308 Da
Chromosome Location	Chromosome: 4; NC_000004.11 (164445450..165305093, complement). Location: 4q32.2
OMIM	613331
3D Structure	ModBase 3D Structure for Q8TCQ1
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MARCH1. The exact sequence is proprietary.
Product Categories/Family for anti-MARCH1 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-MARCH1 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-MARCH1 antibody	WB: 1:500-1:1000 IHC: 1:100-1:200
Related Product Information for anti-MARCH1 antibody	MBS4506978 is an antibody targeting MARCH1. Also known as Rabbit anti-MARCH1 Antibody. Reactive in Human, Mouse. Host: Rabbit.
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.



Western Blot (WB) of anti-MARCH1 antibody
Western blot analysis of MARCH1 expression in K562 (A), mouse brain (B) whole cell lysates.



Immunohistochemistry (IHC) of anti-MARCH1 antibody
Immunohistochemical analysis of MARCH1 staining in human prostate cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

ADDITIONAL DETAILS

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

NCBI GI #	157170356
NCBI GeneID	55016
NCBI Accession #	AAI53125.1
UniProt Primary Accession #	Q8TCQ1
UniProt Secondary Accession #	Q6NZQ8
UniProt Related Accession #	Q8TCQ1
NCBI Official Full Name	Membrane-associated ring finger (C3HC4) 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; RING finger protein 171; membrane-associated RING-CH protein I; membrane-associated RING finger protein 1
NCBI Summary for MARCH1	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]).[supplied by OMIM, Mar 2010]

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: Membrane protein, integral; Ligase; Membrane protein, multi-pass; Ubiquitin ligase; EC 6.3.2.19; Ubiquitin conjugating system; EC 6.3.2.- Chromosomal Location of Human Ortholog: 4q32.2 Cellular Component: endoplasmic reticulum membrane; cytoplasmic vesicle membrane; lysosomal membrane; lysosome; late endosome membrane; early endosome membrane; 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.** MARCH1 is capable of autoubiquitination, thus regulating its own expression.
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