

**MARCH2 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP59227****Specification****MARCH2 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	<a href="#">Q9P0N8</a>
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MARCH2
Epitope Specificity	151-246/246
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane. Lysosome membrane. Endosome membrane.
SIMILARITY	Contains 1 RING-CH-type zinc finger.
SUBUNIT	Interacts with STX6 (By similarity). Interacts with MARCH3.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

Ubiquitination is an important mechanism through which three classes of enzymes act in concert to target short-lived or abnormal proteins for destruction. The three classes of enzymes involved in ubiquitination are the ubiquitin-activating enzymes (E1s), the ubiquitin-conjugating enzymes (E2s) and the ubiquitin-protein ligases (E3s). MARCH2 (membrane-associated ring finger (C3HC4) 2), also known as RNF172 or HSPC240, is a 246 amino acid multi-pass membrane protein that localizes to the endoplasmic reticulum and contains one RING-CH-type zinc finger. Expressed in a variety of tissues, MARCH2 functions as an E3 ubiquitin-protein ligase that is thought to mediate the ubiquitination and subsequent degradation of CD71 and B7-2 and may be involved in endosomal protein trafficking.

**MARCH2 Polyclonal Antibody - Additional Information****Gene ID** 51257**Other Names**

E3 ubiquitin-protein ligase MARCHF2, 2.3.2.27, Membrane-associated RING finger protein 2, Membrane-associated RING-CH protein II, MARCH-II, RING finger protein 172, RING-type E3

ubiquitin transferase MARCHF2, MARCHF2 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=28038" target="\_blank">HGNC:28038</a>), MARCH2, RNF172

### Target/Specificity

Broadly expressed.

### Dilution

<span class="dilution\_WB">WB~~1:1000</span><br \><span class="dilution\_IHC-P">IHC-P~~N/A</span><br \><span class="dilution\_IHC-F">IHC-F~~N/A</span><br \><span class="dilution\_IF">IF~~1:50~200</span><br \><span class="dilution\_E">E~~N/A</span>

### Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

### Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## MARCH2 Polyclonal Antibody - Protein Information

**Name** MARCHF2 ([HGNC:28038](#))

**Synonyms** MARCH2, RNF172

### Function

E3 ubiquitin-protein ligase that may mediate ubiquitination of TFRC and CD86, and promote their subsequent endocytosis and sorting to lysosomes via multivesicular bodies. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfer the ubiquitin to targeted substrates (PubMed:<a href="http://www.uniprot.org/citations/14722266" target="\_blank">14722266</a>, PubMed:<a href="http://www.uniprot.org/citations/16428329" target="\_blank">16428329</a>). Together with GOPC/CAL mediates the ubiquitination and lysosomal degradation of CFTR (PubMed:<a href="http://www.uniprot.org/citations/23818989" target="\_blank">23818989</a>). Ubiquitinates and therefore mediates the degradation of DLG1 (PubMed:<a href="http://www.uniprot.org/citations/17980554" target="\_blank">17980554</a>). Regulates the intracellular trafficking and secretion of alpha1-antitrypsin/SERPINA1 and HP/haptoglobin via ubiquitination and degradation of the cargo receptor ERGIC3 (PubMed:<a href="http://www.uniprot.org/citations/31142615" target="\_blank">31142615</a>). Negatively regulates the antiviral and antibacterial immune response by repression of the NF-kB and type 1 IFN signaling pathways, via MARCHF2-mediated K48-linked polyubiquitination of IKBKG/NEMO, resulting in its proteasomal degradation (PubMed:<a href="http://www.uniprot.org/citations/32935379" target="\_blank">32935379</a>). May be involved in endosomal trafficking through interaction with STX6 (PubMed:<a href="http://www.uniprot.org/citations/15689499" target="\_blank">15689499</a>).

### Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q5I0I2}. Lysosome membrane; Multi-pass membrane protein. Endosome membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q5I0I2}. Golgi apparatus membrane; Multi-pass membrane protein. Cytoplasm. Cell membrane; Multi-pass membrane protein

### Tissue Location

Broadly expressed..

### **MARCH2 Polyclonal Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **MARCH2 Polyclonal Antibody - Images**