

MARCH8 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS13007**Specification****MARCH8 Antibody (C-Terminus) - Product Information**

Application	IHC, ICC
Primary Accession	Q5T0T0
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33kDa KDa

MARCH8 Antibody (C-Terminus) - Additional Information**Gene ID** 220972**Other Names**

E3 ubiquitin-protein ligase MARCH8, 6.3.2.-, Cellular modulator of immune recognition, c-MIR, Membrane-associated RING finger protein 8, Membrane-associated RING-CH protein VIII, MARCH-VIII, RING finger protein 178, MARCH8, MIR, RNF178

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

MARCH8 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

MARCH8 Antibody (C-Terminus) - Protein Information**Name** MARCHF8 ([HGNC:23356](#))**Synonyms** MARCH8, MIR, RNF178**Function**

E3 ubiquitin-protein ligase that plays several important roles in innate immunity and adaptive immunity (PubMed:<[a href="http://www.uniprot.org/citations/34285233" target="_blank">34285233](http://www.uniprot.org/citations/34285233), PubMed:<[a href="http://www.uniprot.org/citations/35019698" target="_blank">35019698](http://www.uniprot.org/citations/35019698), PubMed:<[a href="http://www.uniprot.org/citations/35503863" target="_blank">35503863](http://www.uniprot.org/citations/35503863)). Mediates ubiquitination of CD86 and MHC class II proteins, such as HLA-DR alpha and beta, and promotes their subsequent endocytosis and sorting to lysosomes via multivesicular bodies (PubMed:<[a href="http://www.uniprot.org/citations/19117940" target="_blank">19117940](http://www.uniprot.org/citations/19117940), PubMed:<[a href="http://www.uniprot.org/citations/19566897" target="_blank">19566897](http://www.uniprot.org/citations/19566897)). Possesses a very broad antiviral activity by specifically inactivating different viral fusion proteins (PubMed:<[a href="http://www.uniprot.org/citations/32934085" target="_blank">32934085](http://www.uniprot.org/citations/32934085)). Targets and ubiquitinates cytoplasmic lysine residues of viral envelope glycoproteins with single

transmembrane domains leading to their lysosomal degradation (PubMed:35019698). Therefore, shows broad-spectrum inhibition against many viruses including retroviruses, rhabdoviruses, arenaviruses, sarbecoviruses or influenzaviruses (PubMed:34285233, PubMed:35019698). Strongly blocks human immunodeficiency virus type 1 envelope glycoprotein incorporation into virions by down-regulating its cell surface expression. Also blocks ebola virus glycoprotein/GP incorporation via surface down-regulation (PubMed:32934085). Mediates 'Lys-63'-linked polyubiquitination of influenza M2 to target it to lysosome for degradation (PubMed:34285233). Mediates the regulation of constitutive ubiquitination and trafficking of the viral restriction factor BST2 within the endocytic pathway (PubMed:28320822). Plays a role in maintenance of immune tolerance to self by promoting the turnover and proteasomal degradation of PD-L1/CD274 via ubiquitination (PubMed:34183449). Catalyzes the 'Lys-63'-linked polyubiquitylation of cGAS thereby inhibiting its DNA binding ability and impairing its antiviral innate immunity (PubMed:35503863). Negatively regulates IL7- mediated T-cell homeostasis by mediating 'Lys-27'-linked polyubiquitination of IL7R, leading to its lysosomal degradation (PubMed:39311660).

Cellular Location

Golgi apparatus membrane. Endoplasmic reticulum membrane. Cytoplasmic vesicle membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein. Early endosome membrane; Multi-pass membrane protein

Tissue Location

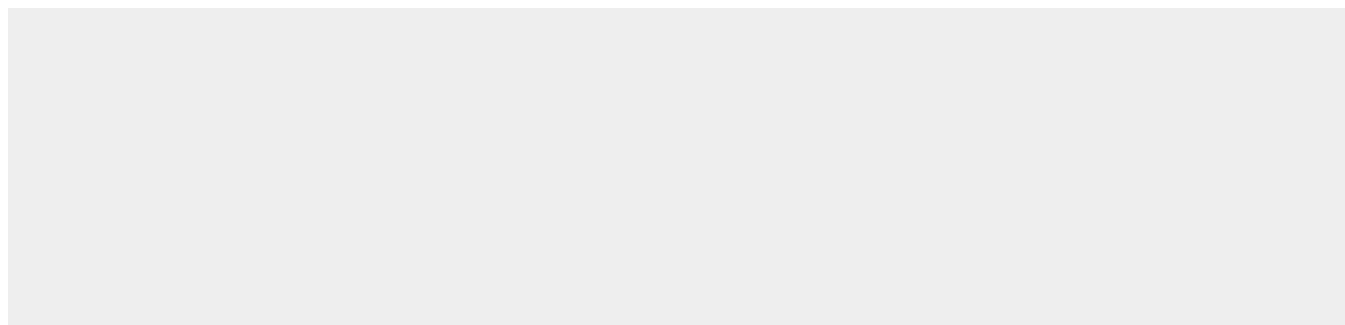
Broadly expressed. Present in immature dendritic cells (at protein level).

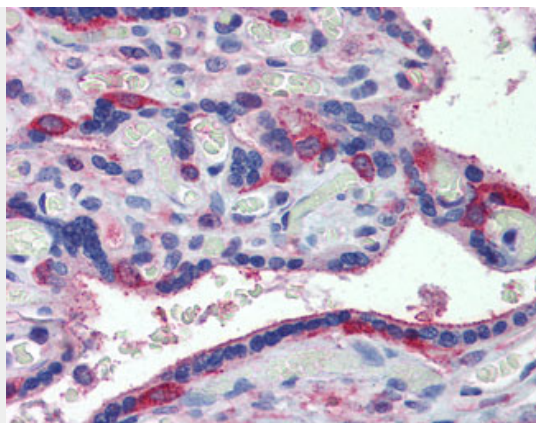
MARCH8 Antibody (C-Terminus) - Protocols

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

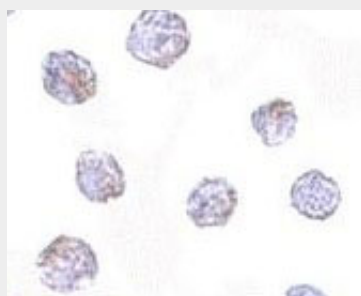
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MARCH8 Antibody (C-Terminus) - Images





Anti-MARCH8 antibody IHC of human placenta.



Immunocytochemistry in HeLa cells with MARCH8 antibody at 2.5 µg/ml.

MARCH8 Antibody (C-Terminus) - Background

E3 ubiquitin-protein ligase that mediates ubiquitination of CD86 and MHC class II proteins, such as HLA-DR alpha and beta, and promotes their subsequent endocytosis and sorting to lysosomes via multivesicular bodies. May also promote ubiquitination and endocytosis of TFRC and FAS.

MARCH8 Antibody (C-Terminus) - References

Goto E., et al. J. Biol. Chem. 278:14657-14668(2003).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Deloukas P., et al. Nature 429:375-381(2004).
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Bartee E., et al. J. Virol. 78:1109-1120(2004).