

**MS4A1/CD20 Antibody (C-term)**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM1990b**

**Specification**

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**MS4A1/CD20 Antibody (C-term) - Product Information**

Application	IHC, WB, IHC-P,E
Primary Accession	<a href="#">P11836</a>
Other Accession	<a href="#">NP_690605.1</a> , <a href="#">NP_068769.2</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	33077
Antigen Region	266-294

**MS4A1/CD20 Antibody (C-term) - Additional Information**

**Gene ID** 931

**Other Names**

B-lymphocyte antigen CD20, B-lymphocyte surface antigen B1, Bp35, Leukocyte surface antigen Leu-16, Membrane-spanning 4-domains subfamily A member 1, CD20, MS4A1, CD20

**Target/Specificity**

This MS4A1/CD20 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 266-294 amino acids from the C-terminal region of human MS4A1/CD20.

**Dilution**

IHC~~1:1000  
WB~~1:500~1000  
IHC-P~~1:100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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.

**Precautions**

MS4A1/CD20 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MS4A1/CD20 Antibody (C-term) - Protein Information**

**Name** MS4A1

## Synonyms CD20

**Function** B-lymphocyte-specific membrane protein that plays a role in the regulation of cellular calcium influx necessary for the development, differentiation, and activation of B-lymphocytes (PubMed:[12920111](#), PubMed:[3925015](#), PubMed:[7684739](#)). Functions as a store-operated calcium (SOC) channel component promoting calcium influx after activation by the B-cell receptor/BCR (PubMed:[12920111](#), PubMed:[18474602](#), PubMed:[7684739](#)).

## Cellular Location

Cell membrane; Multi-pass membrane protein. Cell membrane; Lipid-anchor. Note=Constitutively associated with membrane rafts.

## Tissue Location

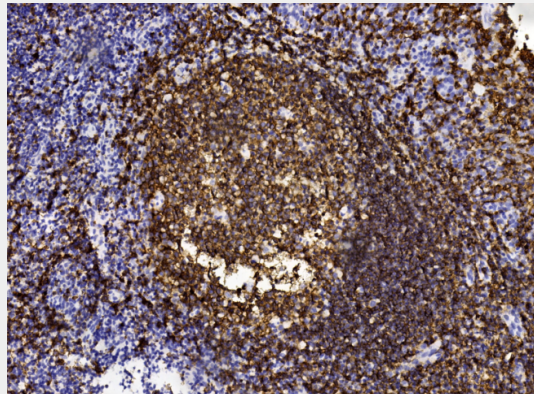
Expressed on B-cells.

## MS4A1/CD20 Antibody (C-term) - Protocols

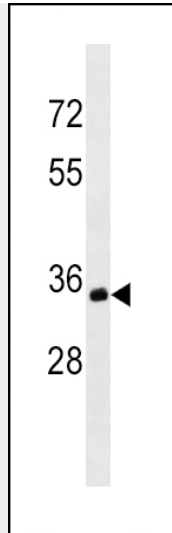
Provided below are standard protocols that you may find useful for product applications.

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

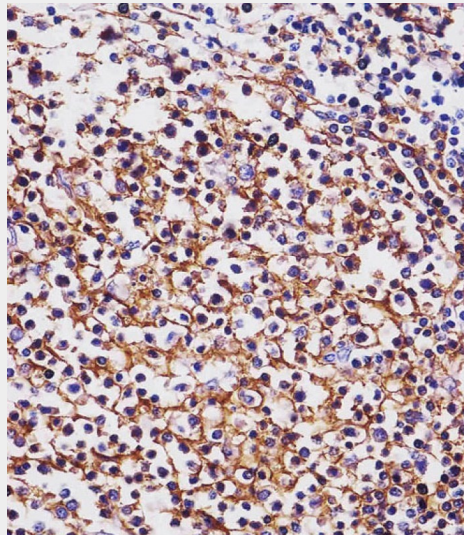
## MS4A1/CD20 Antibody (C-term) - Images



Immunohistochemical analysis of paraffin-embedded Human tonsil section using Pink1(Cat#AM1990b). AM1990b was diluted at 1:1000 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



MS4A1/CD20 Antibody (C-term) (Cat. #AM1990b) western blot analysis in Ramos cell line lysates (35µg/lane). This demonstrates the MS4A1/CD20 antibody detected the MS4A1/CD20 protein (arrow).



AM1990b staining MS4A1/CD20 in human tonsil tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/100) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

#### **MS4A1/CD20 Antibody (C-term) - Background**

This gene encodes a member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and nonlymphoid tissues. This gene encodes a B-lymphocyte surface molecule which plays a role in the development and differentiation of B-cells into plasma cells. This family member is localized to 11q12, among a cluster of family members. Alternative splicing of this gene results in two transcript variants which encode the same protein.

**MS4A1/CD20 Antibody (C-term) - References**

- Weber, M.S., et al. *Ann. Neurol.* 68(3):369-383(2010)  
Wu, D., et al. *Am. J. Clin. Pathol.* 134(2):258-265(2010)  
de Haij, S., et al. *Cancer Res.* 70(8):3209-3217(2010)  
Beers, S.A., et al. *Semin. Hematol.* 47(2):107-114(2010)  
Davila, S., et al. *Genes Immun.* 11(3):232-238(2010)