

MS4A1/CD20 Antibody (C-term) Mouse Monoclonal Antibody (Mab)

Catalog # AW5685

## Specification

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

Application Primary Accession Reactivity Host Clonality Calculated MW Isotype Antigen Source WB,E <u>P11836</u> Human, Mouse, Rat Mouse Monoclonal 33kd KDa IgG1 HUMAN

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

Gene ID 931

Antigen Region 266-294

#### **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

Dilution WB~~1:3000

#### 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.

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:<a href="http://www.uniprot.org/citations/12920111" target="\_blank">12920111</a>, PubMed:<a href="http://www.uniprot.org/citations/3925015" target="\_blank">3925015</a>, PubMed:<a href="http://www.uniprot.org/citations/7684739" target="\_blank">7684739</a>). Functions as a store-operated calcium (SOC) channel component promoting calcium influx after activation by the B-cell receptor/BCR (PubMed:<a href="http://www.uniprot.org/citations/12920111" target="\_blank">12920111" target="\_blank">12920111" target="\_blank">3925015</a>, PubMed:<a href="http://www.uniprot.org/citations/7684739" target="\_blank">3925015</a>, PubMed:<a href="http://www.uniprot.org/citations/7684739" target="\_blank">1292011</a>, PubMed:<a href="http://www.uniprot.org/citations/7684739" target="\_blank">7684739</a>).

#### **Cellular Location**

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

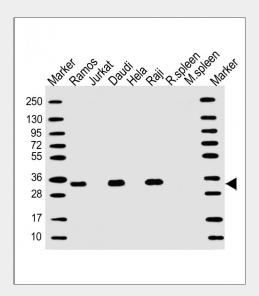
**Tissue Location** Expressed on B-cells.

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

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

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



All lanes : Anti-MS4A1/CD20 Antibody (C-term) at 1:3000 dilution Lane 1: Ramos whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: Daudi whole cell lysate Lane 4: Hela whole cell lysate Lane 5: Raji whole cell lysate Lane 6: Rat spleen cell lysate Lane 7: Mouse spleen cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated



# at 1/10000 dilution. Predicted band size : 33 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

# 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)