

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

Catalog # AM1990a

## Specification

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

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW Antigen Region WB,E <u>P11836</u> <u>NP\_068769.2</u>, <u>NP\_690605.1</u> Human Mouse Monoclonal IgG1 33077 266-294

# MS4A1/CD20 Antibody (C-term) (Ascites) - 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** WB~~1:1000~3200

Format

Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

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) (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

# MS4A1/CD20 Antibody (C-term) (Ascites) - 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:<u>12920111</u>, PubMed:<u>3925015</u>, PubMed:<u>7684739</u>). Functions as a store-operated calcium (SOC) channel component promoting calcium influx after activation by the B-cell receptor/BCR (PubMed:<u>12920111</u>, PubMed:<u>18474602</u>, PubMed:<u>7684739</u>).

**Cellular Location** 

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

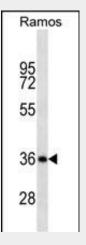
Tissue Location Expressed on B-cells.

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



MS4A1/CD20 Antibody (C-term) (Cat. #AM1990a) western blot analysis in Ramos cell line lysates (35µg/lane).This demonstrates the MS4A1/CD20 antibody detected the MS4A1/CD20 protein (arrow).

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