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MS4A1/CD20 Antibody (C-term)

Mouse Monoclonal Antibody (Mab)
Catalog # AW5685

Product Information

Application	WB
Primary Accession	P11836
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	33077
Isotype	IgG1
Antigen Source	HUMAN

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.
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.

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.

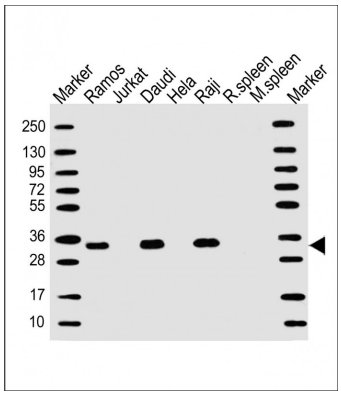
Background

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.

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)

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.