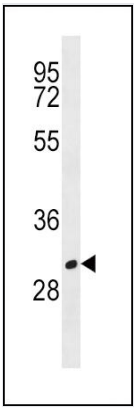
MS4A1 Antibody – Rabbit Polyclonal

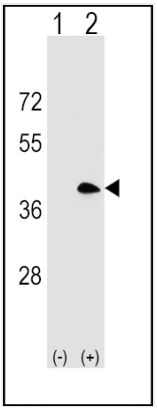
PRODUCT OVERVIEW

Product Name	MS4A1, Polyclonal Antibody
Full Product Name	MS4A1, CT (MS4A1, CD20, B-lymphocyte antigen CD20, B-lymphocyte surface antigen B1, Bp35, Leukocyte surface antigen Leu-16, Membrane-spanning 4-domains subfamily A member 1, CD20) (MaxLight 405)
Product Gene Name	anti-MS4A1 antibody
Product Synonym Names	MS4A1; CD20; B-lymphocyte antigen CD20; B-lymphocyte surface antigen B1; Bp35; Leukocyte surface antigen Leu-16; Membrane-spanning 4-domains subfamily A member 1; CD20
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human MS4A1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	33077 MW
OMIM	gene 613495
3D Structure	ModBase 3D Structure for P11836
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 216-244 in the C-terminal region of human MS4A1, UniProt Accession #P11836.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-MS4A1 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-MS4A1 antibody	Western Blot (WB), FLISA
Application Notes for anti-MS4A1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MS4A1 antibody	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.
Product References and Citations for anti-MS4A1 antibody	1. Weber, M.S., et al. Ann. Neurol. 68(3):369-383(2010). 2. Wu, D., et al. Am. J. Clin. Pathol. 134(2):258-265(2010). 3. de Haij, S., et al. Cancer Res. 70(8):3209-3217(2010). 4. Beers, S.A., et al. Semin. Hematol. 47(2):107-114(2010). 5. Davila, S., et al. Genes Immun. 11(3):232-238(2010).

Other Notes	Small volumes of anti-MS4A1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MS4A1 purchase	MBS6322378 is an antibody targeting MS4A1. Also known as MS4A1, CT (MS4A1, CD20, B-lymphocyte antigen CD20, B-lymphocyte surface antigen B1, Bp35, Leukocyte surface antigen Leu-16, Membrane-spanning 4-domains subfamily A member 1, CD20) (MaxLight 405). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MS4A1 antibody
Western Blot analysis in HL-60 cell line lysates (35ug/lane) usingMBS6012088. This demonstrates that MBS6012088 detected the MS4A1 protein (arrow).



Western Blot (WB) of anti-MS4A1 antibody
Western Blot analysis in 293 cell lysates (2ug/lane) usingMBS6012088. Lane 1: Nontransfected Lane 2: Transiently transfected with the MS4A1 gene.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MS4A1. It may not necessarily be applicable to this product.

NCBI GI #	23110987
NCBI GeneID	931
NCBI Accession #	NP_068769.2
NCBI Related Accession #	NP_690605.1
UniProt Primary Accession #	P11836
UniProt Secondary Accession #	P08984; Q13963; A6NMS4; B4DT24
UniProt Related Accession #	P11836
GenBank Nucleotide #	NM_021950.3
NCBI Official Full Name	B-lymphocyte antigen CD20
NCBI Official Synonym Full Names	membrane spanning 4-domains A1
NCBI Official Symbol	MS4A1
NCBI Official Synonym Symbols	B1; S7; Bp35; CD20; CVID5; MS4A2; LEU-16
UniProt Protein Name	B-lymphocyte antigen CD20
UniProt Synonym Protein Names	B-lymphocyte surface antigen B1; Bp35; Leukocyte surface antigen Leu-16; Membrane-spanning 4-domains subfamily A member 1; CD_antigen: CD20
Protein Family	B-lymphocyte antigen
UniProt Gene Name	MS4A1
UniProt Synonym Gene Names	CD20
UniProt Entry Name	CD20_HUMAN
NCBI Protein Information	B-lymphocyte antigen CD20

UniProt Comments for MS4A1	MS4A1: This protein may be involved in the regulation of B-cell activation and proliferation. Defects in MS4A1 are the cause of immunodeficiency common variable type 5 (CVID5); also called antibody deficiency due to CD20 defect. CVID5 is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen. The defect results from a failure of B-cell differentiation and impaired secretion of immunoglobulins; the numbers of circulating B-cells is usually in the normal range, but can be low. Belongs to the MS4A family. Protein type: Membrane protein, integral; Cell surface; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 11q12 Cellular Component: extracellular space; integral to plasma membrane; external side of plasma membrane Molecular Function: epidermal growth factor receptor binding Biological Process: B cell proliferation; humoral immune response Disease: Immunodeficiency, Common Variable, 5
Research Articles on MS4A1	**1.** Limiting the antibody-induced induction of immunosuppressive reactive oxygen species may improve the anti-leukemic efficacy of anti-CD20 therapy in chronic lymphocytic leukemia.
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