

CD20 / MS4A1 (B-Cell Marker) Antibody - Culture Supernatant

Mouse Monoclonal Antibody [Clone L26]
Catalog # AH12657

Specification

CD20 / MS4A1 (B-Cell Marker) Antibody - Culture Supernatant - Product Information

Application
Primary Accession
Other Accession
Reactivity
Host

Clonality Isotype

Calculated MW

IHC, IF, FC P11836 931, 712553

Human, Monkey, Baboon

Mouse Monoclonal

Mouse / IgG2a, kappa

33-37kDa KDa

CD20 / MS4A1 (B-Cell Marker) Antibody - Culture Supernatant - 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

Application Note

IHC~~1:100~500<br \> IF~~1:50~200<br \> FC~~1:10~50

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

CD20 / MS4A1 (B-Cell Marker) Antibody - Culture Supernatant is for research use only and not for use in diagnostic or therapeutic procedures.

CD20 / MS4A1 (B-Cell Marker) Antibody - Culture Supernatant - 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:<a href="http://www.uniprot.org/citations/12920111"



 $target="_blank">12920111, PubMed:18474602, PubMed:7684739).$

Cellular Location

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

Tissue Location

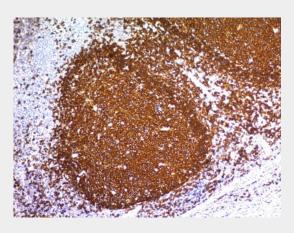
Expressed on B-cells.

CD20 / MS4A1 (B-Cell Marker) Antibody - Culture Supernatant - Protocols

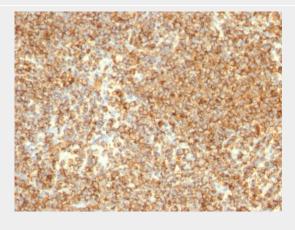
Provided below are standard protocols that you may find useful for product applications.

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

CD20 / MS4A1 (B-Cell Marker) Antibody - Culture Supernatant - Images



Formalin-fixed, paraffin-embedded human Tonsil stained with CD20 Monoclonal Antibody (L26)





Formalin-fixed, paraffin-embedded human Lymphoma stained with CD20 Monoclonal Antibody (L26)

CD20 / MS4A1 (B-Cell Marker) Antibody - Culture Supernatant - Background

Recognizes a protein of 30-33kDa, which is identified as CD20. Its epitope is located in the cytoplasmic domain of CD20 and was, therefore, ascribed as CD20cy in the 5th Workshop. CD20 is a non-lg differentiation antigen of B-cells and its expression is restricted to normal and neoplastic B-cells, being absent from all other leukocytes and tissues. CD20 is expressed by pre B-cells and persists during all stages of B-cell maturation but is lost upon terminal differentiation into plasma cells. This MAb can be used for immunophenotyping of leukemia and malignant cells, B lymphocyte detection in peripheral blood and B cell localization in tissues. It reacts with the majority of B-cells present in peripheral blood and lymphoid tissues and their derived lymphomas. In lymphoid tissue, germinal center blasts and B-immunoblasts are particularly reactive. It is a reliable antibody for ascribing a B-cell phenotype in known lymphoid tissues. Rarely, CD20-positive T-cell lymphomas have been reported. Reactivity has also been noted with Reed-Sternberg cells in cases of Hodgkin's disease, particularly of lymphocyte predominant type.

CD20 / MS4A1 (B-Cell Marker) Antibody - Culture Supernatant - References

Schlossman, S., et al., eds. 1995. Leucocyte Typing V. New York: Oxford University Press