

CD20 / MS4A1 (B-Cell Marker) Antibody - With BSA and Azide Mouse Monoclonal Antibody [Clone SPM618 ] Catalog # AH12665

#### Specification

# CD20 / MS4A1 (B-Cell Marker) Antibody - With BSA and Azide - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW IHC, IF, FC <u>P11836</u> <u>931</u>, <u>712553</u> Human Mouse Monoclonal Mouse / IgG2a, kappa 33-37kDa KDa

#### CD20 / MS4A1 (B-Cell Marker) Antibody - With BSA and Azide - 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 <span class ="dilution\_IHC">IHC~~1:100~500</span><br \><span class ="dilution\_IF">IF~~1:50~200</span><br \><span class ="dilution\_FC">FC~~1:10~50</span>

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

**Precautions** CD20 / MS4A1 (B-Cell Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

#### CD20 / MS4A1 (B-Cell Marker) Antibody - With BSA and Azide - 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/7684739" target="\_blank">7684739</a>).



target="\_blank">12920111</a>, PubMed:<a href="http://www.uniprot.org/citations/18474602" target="\_blank">18474602</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.

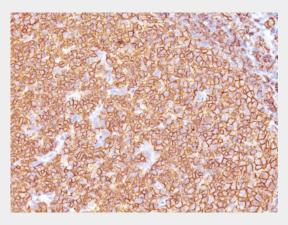
**Tissue Location** Expressed on B-cells.

# CD20 / MS4A1 (B-Cell Marker) Antibody - With BSA and Azide - 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>

# CD20 / MS4A1 (B-Cell Marker) Antibody - With BSA and Azide - Images



Formalin-fixed, paraffin-embedded human Tonsil stained with CD20 Monoclonal Antibody (SPM618)

# CD20 / MS4A1 (B-Cell Marker) Antibody - With BSA and Azide - Background

Recognizes a protein of 30-33kDa, which is identified as CD20. It is a non-Ig 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 - With BSA and Azide - References

Tedder, T.F., et al. 1994. CD20: a regulator of cell-cycle progression of B lymphocytes. Immunol. Today 15: 450-454