

**CD20 / MS4A1 (B-Cell Marker) Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone 93-1B3 ]**  
**Catalog # AH12669**

**Specification**

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

Application	,2,4,
Primary Accession	<a href="#">P11836</a>
Other Accession	<a href="#">931</a> , <a href="#">712553</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Calculated MW	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

**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: [3925015](http://www.uniprot.org/citations/3925015), PubMed: [7684739](http://www.uniprot.org/citations/7684739), PubMed: [12920111](http://www.uniprot.org/citations/12920111)). Functions as a store-operated calcium (SOC) channel component promoting calcium influx after activation by the B-cell receptor/BCR (PubMed: [7684739](http://www.uniprot.org/citations/7684739), PubMed: [12920111](http://www.uniprot.org/citations/12920111), PubMed: [18474602](http://www.uniprot.org/citations/18474602)).

**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.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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

Recognizes a protein of 30-33kDa, which is identified as CD20 (Workshop V; Code CD20.4). 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. The protein passes through the membrane 4 times with both ends in cytoplasm and exposes one short and one longer loop to the external environment. CD20 is not glycosylated in resting B-cells and its cytoplasmic domains are differentially phosphorylated upon activation. It acts as calcium channel involved in B cell activation and cell cycle progression.

**CD20 / MS4A1 (B-Cell Marker) Antibody - With BSA and Azide - References**

Cobbold, S. Et al., In leucocyte typing III (ed. McMichael A.J. et al.), Oxford University Press, 1987