10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Mouse Monoclonal Antibody [Clone 93-1B3]
Catalog # AH12669

Specification

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

Application	**,2,4,**
Primary Accession	P11836
Other Accession	931, 712553
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: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.

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 Cytomety
- 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