

CD20 Antibody [Clone B9E9]
Purified Mouse Monoclonal Antibody
Catalog # AH10077**Specification**

CD20 Antibody [Clone B9E9] - Product Information

Application	FC
Primary Accession	P11836
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a, kappa
Calculated MW	33-37kDa KDa

CD20 Antibody [Clone B9E9] - 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

Target/Specificity

Lymphoblastoid cell line Daudi

Application Note

FC~~1:10~50

Format

0.5 ml at 100ug/ml; Conjugated to PE

Storage

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

Precautions

CD20 Antibody [Clone B9E9] is for research use only and not for use in diagnostic or therapeutic procedures.

CD20 Antibody [Clone B9E9] - 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](http://www.uniprot.org/citations/12920111)), PubMed:[12920111](http://www.uniprot.org/citations/12920111))

href="http://www.uniprot.org/citations/3925015" target="_blank">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 Antibody [Clone B9E9] - 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 Antibody [Clone B9E9] - Images

CD20 Antibody [Clone B9E9] - Background

Recognizes a protein of 33-37kDa, identified as CD20 (Workshop V; Code CD20.12). B9E9 recognizes extracellular domain of CD20. The epitope is similar to or identical to that recognized by other CD20 antibodies including Leu-16 and B1. This MAb can be used for immunophenotyping of leukemia and malignant cells, B lymphocyte detection in peripheral blood, B cell localization in tissues and B lymphocyte purification by immunosorbent methods. CD20 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. 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 a calcium channel involved in B-cell activation and cell cycle progression.

CD20 Antibody [Clone B9E9] - References

1. Schlossman S, et al. (eds). Leukocyte Typing V, Oxford University Press, Oxford, p511-515, 1995.
2. Tedder TF and Schlossman SF. Phosphorylation of the B1 (CD20) molecule by normal and malignant human B lymphocytes. J Biol Chem 1988, 263(20):10009-10015.
3. Bubien JK et al. Transfection of the CD20 cell surface molecule into ectopic cell types generates a Ca²⁺ conductance found constitutively in B lymphocytes. J Cell Biol 1993, 121(5):1121-1132.
4. Tedder TF and Engel P. CD20: a regulator of cell-cycle progression of B lymphocytes. Immunol Today 1994, 15(9):450-454.
5. Kanzaki M et al. Expression of calcium-permeable cation channel CD20 accelerates progression through the G1 phase in Balb/c 3T3 cells. J Biol Chem 1995, 270(22):13099-13104.