

## CD20 / MS4A1 (B-Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone B9E9]

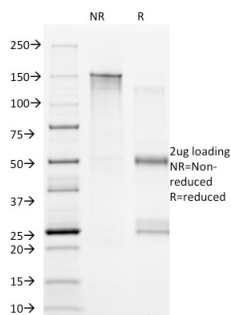
Catalog No	Format	Size
931-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
931-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
931-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

Product Details	
Clone	B9E9
Gene Name	MS4A1
Immunogen	Lymphoblastoid cell line Daudi
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a
Mol. Weight of Antigen	33-37kDa
Cellular Localization	Cell membrane
Species Reactivity	Human
Positive Control	Human lymphocytes or Raji cells.

\*Optimal dilution for a specific application should be determined.

### Product Images for CD20 / MS4A1 (B-Cell Marker) Antibody



SDS-PAGE Analysis of Purified CD20 Mouse Monoclonal Antibody (B9E9).  
Confirmation of Integrity and Purity of Antibody.

### **Specificity & Comments**

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.

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### **Limitations and Warranty**

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### **Supplied As**

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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### **Storage and Stability**

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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### **Research Areas**

B Cell Markers, Hematopoietic Stem Cells

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