

CD20 / MS4A1 (B-Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone MS4A1/3409]

Catalog No	Format	Size
931-MSM12-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
931-MSM12-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
931-MSM12-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

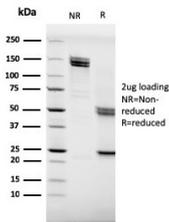
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Western Blot (WB)	2-4ug/ml	

Product Details

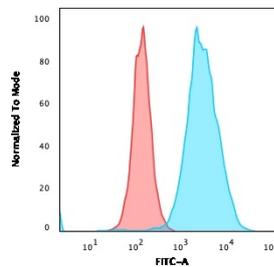
Clone	MS4A1/3409
Gene Name	MS4A1
Immunogen	A recombinant fragment (around aa 213-297) of human MS4A1 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	33-37kDa
Cellular Localization	Cell membrane
Species Reactivity	Human
Positive Control	Daudi, Jurkat, Raji or U266 cells. Lymph node and Tonsil

*Optimal dilution for a specific application should be determined.

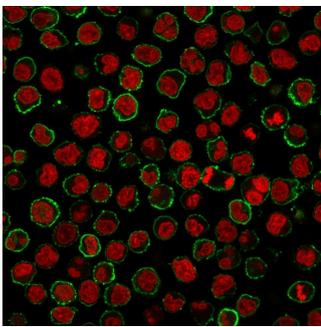
Product Images for CD20 / MS4A1 (B-Cell Marker) Antibody



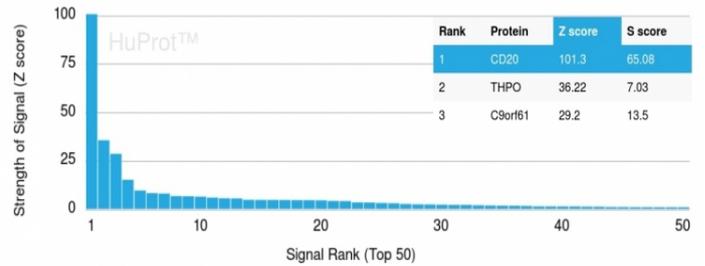
SDS-PAGE Analysis Purified CD20 Mouse Monoclonal Antibody (MS4A1/3409). Confirmation of Purity and Integrity of Antibody.



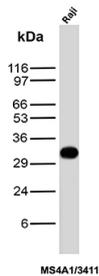
Flow Cytometric Analysis of Raji Cells. using CD20 Mouse Monoclonal Antibody (MS4A1/3409) followed by Goat anti-mouse IgG-CF488 (Blue); Isotype Control (Red).



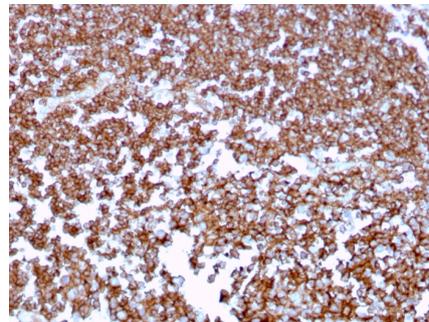
Immunofluorescence staining of Raji cells using CD20 Mouse Monoclonal Antibody (MS4A1/3409) followed by goat anti-mouse IgG conjugated to CF488 (green). Nuclei are stained with Reddot.



Analysis of Protein Array containing more than 19,000 full-length human proteins using CD20 Mouse Recombinant Monoclonal Antibody (MS4A1/3409). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Western Blot Analysis of Raji cell lysate using CD20 Mouse Monoclonal Antibody (MS4A1/3409).



Formalin-fixed, paraffin-embedded human Tonsil stained with CD20 Mouse Monoclonal Antibody (MS4A1/3409).

Specificity & Comments

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.

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.

Supplied As

200ug/ml of recombinant MAb purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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.

Research Areas

B Cell Markers, Hematopoietic Stem Cells