

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

Mouse Monoclonal Antibody [Clone rIGEL/773]

Catalog No	Format	Size
931-MSM9-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
931-MSM9-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
931-MSM9-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

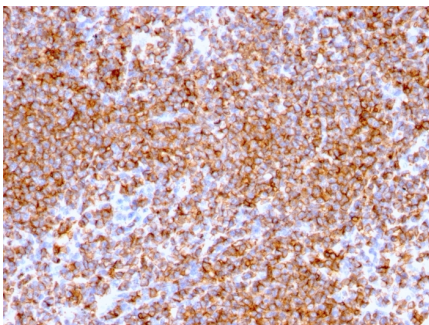
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

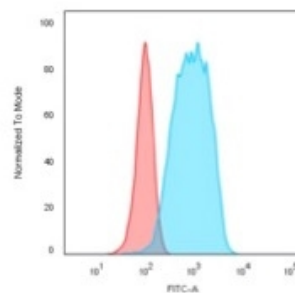
<b>Clone</b>	rIGEL/773
<b>Gene Name</b>	MS4A1
<b>Immunogen</b>	Recombinant full-length human MS4A1 fragment
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	33-37kDa
<b>Cellular Localization</b>	Cell membrane
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Daudi, or U266 (FACS).Human lymphocytes. Lymph node and tonsil (IHC)., Raji

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

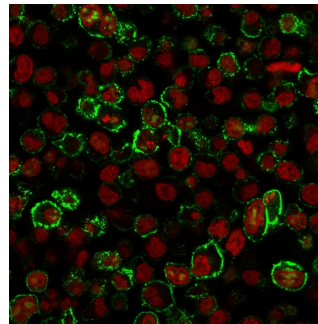
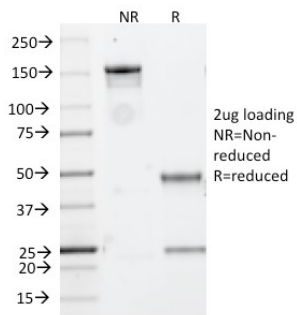
### Product Images for Recombinant CD20/ MS4A1 (B-Cell Marker) Antibody



Formalin-fixed, paraffin-embedded human lymph node stained with CD20 Mouse Recombinant Monoclonal Antibody (rIGEL/773).

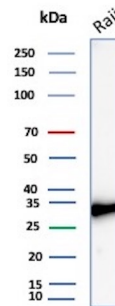
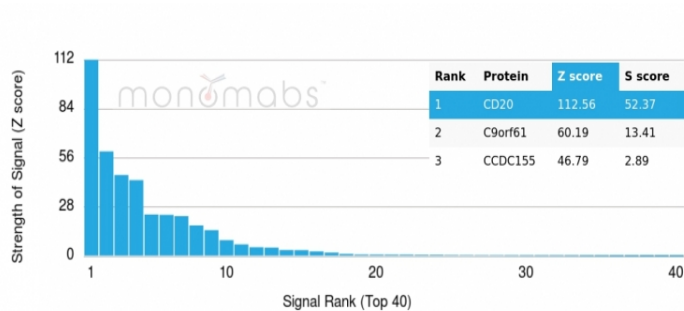


Flow Cytometric Analysis of Raji cells. CD20 Recombinant Mouse Monoclonal Antibody (rIGEL/773) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).



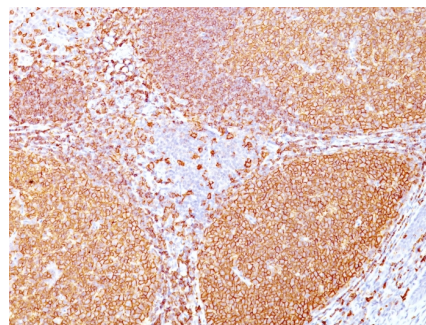
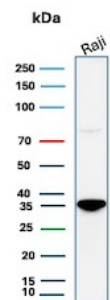
SDS-PAGE Analysis Purified CD20 Mouse Recombinant Monoclonal Antibody (rIGEL/773). Confirmation of Purity and Integrity of Antibody.

Immunofluorescence staining of Raji cells using CD20 Mouse Recombinant Monoclonal Antibody (rIGEL/773) followed by goat anti-mouse IgG-CF488 (green). Nuclei stained with RedDot.



Western Blot Analysis of Raji cell lysate using CD20 Recombinant Mouse Monoclonal Antibody (rIGEL/773).

Analysis of Protein Array containing more than 19,000 full-length human proteins using CD20 Monospecific Recombinant Mouse Monoclonal Antibody (rIGEL/773). 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 (rIGEL/773).

Formalin-fixed, paraffin-embedded human tonsil stained with CD20 Mouse Recombinant Monoclonal Antibody (rIGEL/773).

**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.

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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 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.

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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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