

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

Mouse Monoclonal Antibody [Clone MS4A1/3411]

| Catalog No      | Format  | Size   |
|-----------------|---|--------|
| 931-MSM11-P0    | Purified Ab with BSA and Azide at 200ug/ml    | 20 ug  |
| 931-MSM11-P1    | Purified Ab with BSA and Azide at 200ug/ml    | 100 ug |
| 931-MSM11-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

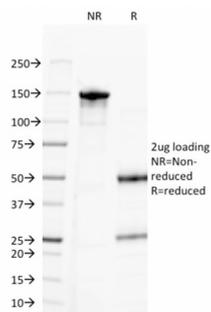
| Applications               | Tested Dillution    | Note  |
|----------------------------|---------------------|---|
| Flow Cytometry (Flow)      | 1-2ug/million cells |   |
| Immunofluorescence (IF)    | 1-3ug/ml            |   |
| Immunohistochemistry (IHC) | 1-2ug/ml            | 30 min at RT. Staining 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

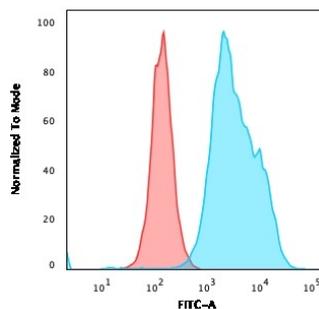
|                               |   |
|-------------------------------|---|
| <b>Clone</b>                  | MS4A1/3411  |
| <b>Gene Name</b>              | MS4A1   |
| <b>Immunogen</b>              | A recombinant fragment (around aa 213-297) of human MS4A1 protein (exact sequence is proprietary) |
| <b>Host</b>                   | Mouse   |
| <b>Clonality</b>              | Monoclonal  |
| <b>Isotype / Light Chain</b>  | IgG2b / 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, Jurkat, Raji or U266 cells. Lymph node and Tonsil.   |

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

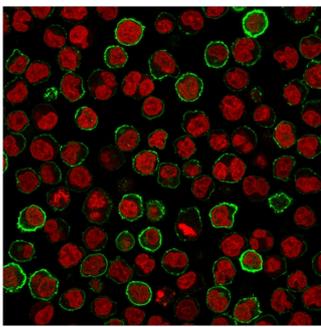
### Product Images for CD20/ MS4A1 (B-Cell Marker) Antibody



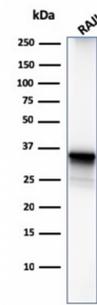
SDS-PAGE Analysis of Purified CD20 Mouse Monoclonal Antibody (MS4A1/3411). Confirmation of Purity and Integrity of Antibody.



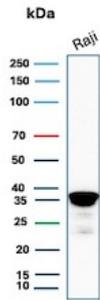
Flow Cytometric Analysis of Raji cells. CD20 Mouse Monoclonal Antibody (MS4A1/3411) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



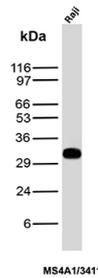
Immunofluorescence staining of Raji cells using CD20 Mouse Monoclonal Antibody (MS4A1/3411) followed by goat anti-Mouse IgG conjugated to CF488 (green). Nuclei are stained with Reddot.



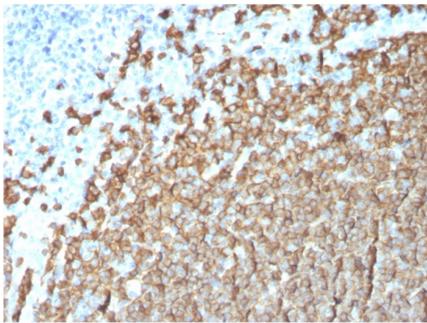
Western Blot Analysis of Raji cell lysate using CD20 Mouse Monoclonal Antibody (MS4A1/3411).



Western Blot Analysis of Raji cell lysate using CD20 Mouse Monoclonal Antibody (MS4A1/3411).



Western Blot Analysis of Raji lysate using CD20 Mouse Monoclonal Antibody (MS4A1/3411).



Formalin-fixed, paraffin-embedded human Tonsil stained with CD20 Mouse Monoclonal Antibody (MS4A1/3411).

### 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.

### 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

## 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.

---