# CD20 / MS4A1 (B-Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone SPM494]

| Catalog No | Format | Size |
|---|---|---|
| 931-MSM2X-CS0 | Culture Supernatant | 0.1 ml |
| 931-MSM2X-CS1 | Culture Supernatant | 0.5 ml |

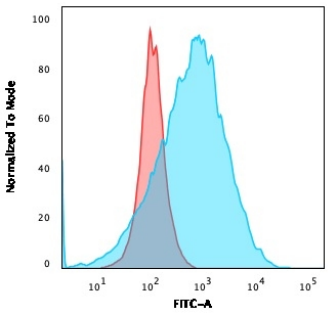
| Applications | Tested Dillution | Note |
|---|---|---|
| Flow Cytometry (Flow) | 1-2ug/million cells | |
| Immunofluorescence (IF) | 1-3ug/ml | |
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH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

## Product Details

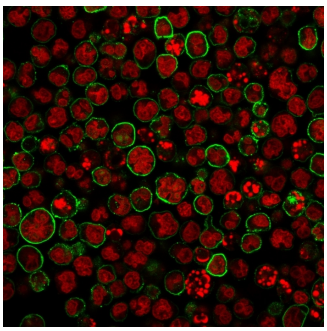
| | |
|---|---|
| **Clone** | SPM494 |
| **Gene Name** | MS4A1 |
| **Immunogen** | Human tonsil B cells |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG2a / Kappa |
| **Mol. Weight of Antigen** | 33-37kDa |
| **Cellular Localization** | Cell membrane |
| **Species Reactivity** | Baboon, Human, Monkey |
| **Positive Control** | Daudi, Raji and U266 and human lymphocytes. Lymph nodes and tonsils. |

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

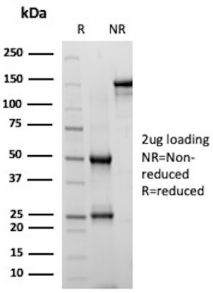
## Product Images for CD20 / MS4A1 (B-Cell Marker) Antibody



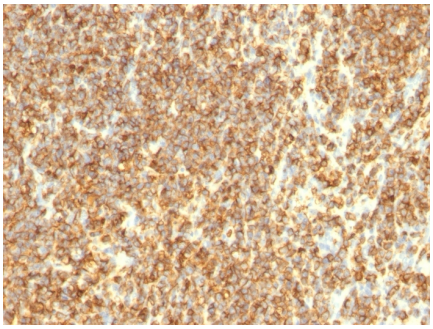

Flow Cytometric Analysis of Raji cells using CD20 Monoclonal Antibody (SPM494) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Immunofluorescence staining of MOLT-4 cells using CD20 MonoclonalAntibody (SPM494) followed by goat anti-Mouse IgG conjugated to CF488 (green). Nuclei are stained with Reddot.




SDS-PAGE Analysis of Purified B-lymphocyte antigen CD20 MouseMonoclonal Antibody (SPM494). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Lymphoma stained with CD20 Monoclonal Antibody (SPM494)

## Specificity & Comments

Recognizes a protein of 30-33kDa, which is identified as CD20. Its epitope is located in the cytoplasmic domain of CD20 and was, therefore, ascribed as CD20cy in the 5th Workshop. 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. 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

Tissue culture supernatant with 0.05% Azide. Contact us if you require it in a different format.

## Storage and Stability

Store at 2 to 8°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.