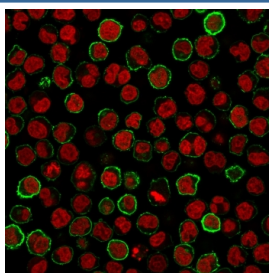


## CD20 Antibody [clone MS4A1/3411] (V7618)

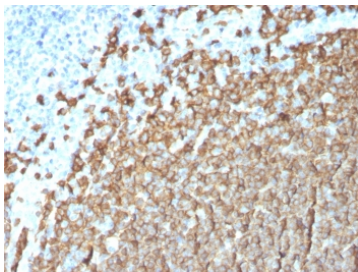
| Catalog No.    | Formulation   | Size   |
|----------------|---|--------|
| V7618-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide                      | 100 ug |
| V7618-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide                      | 20 ug  |
| V7618SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free  | 100 ug |
| V7618IHC-7ML   | Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only* | 7 ml   |

[Bulk quote request](#)

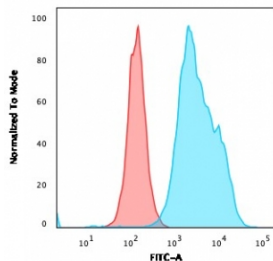
|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Human   |
| <b>Format</b>             | Purified  |
| <b>Clonality</b>          | Monoclonal (mouse origin)   |
| <b>Isotype</b>            | Mouse IgG2b, kappa  |
| <b>Clone Name</b>         | MS4A1/3411  |
| <b>Purity</b>             | Protein G affinity chromatography   |
| <b>UniProt</b>            | P11836  |
| <b>Localization</b>       | Predominantly cell surface with some cytoplasmic  |
| <b>Applications</b>       | ELISA : 2-4ug/ml (order BSA/azide-free format)<br>Western Blot : 1-2ug/ml<br>Flow Cytometry : 1-2ug/10 <sup>6</sup> cells<br>Immunofluorescence : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT |
| <b>Limitations</b>        | This CD20 antibody is available for research use only.  |



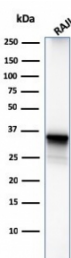
Immunofluorescence staining of human Raji cells with CD20 antibody (green, clone MS4A1/3411) and Reddot nuclear stain (red).



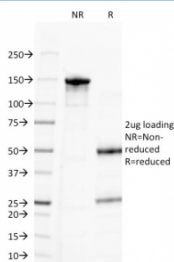
IHC staining of FFPE human tonsil tissue with CD20 antibody (clone MS4A1/3411).  
HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



Flow cytometry testing of human Raji cells with CD20 antibody (clone MS4A1/3411);  
Red=isotype control, Blue= CD20 antibody.



Western blot testing of human Raji lysate with CD20 antibody (clone MS4A1/3411).  
Predicted molecular weight ~33 kDa.



SDS-PAGE analysis of purified, BSA-free CD20 antibody (clone MS4A1/3411) as  
confirmation of integrity and purity.

## Description

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.

## Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the CD20 antibody to be titrated up or down for optimal performance.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

Amino acids 213-297 from the human protein were used as the immunogen for this CD20 antibody.

## Storage

CD20 antibody with azide can be stored at 2-8oC. The azide-free format should be aliquoted and stored at -20oC or colder.