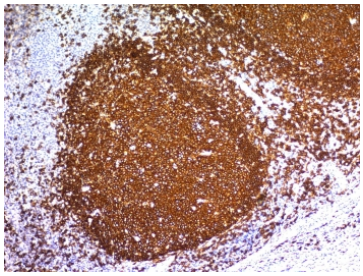
CD20 Antibody Mouse Monoclonal [clone L26] (V7645)

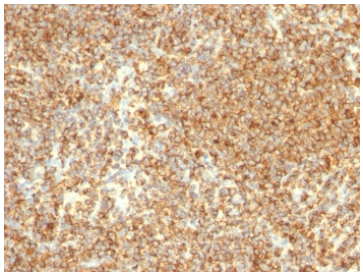
Catalog No.	Formulation	Size
V7645-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7645-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7645SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7645IHC-7ML	Prediluted 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

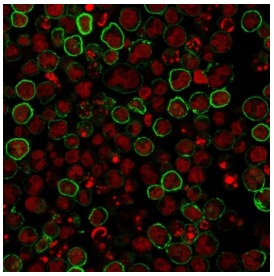
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	L26
Purity	Protein G affinity chromatography
UniProt	P11836
Localization	Predominantly cell surface with some cytoplasmic
Applications	Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This CD20 antibody is available for research use only.



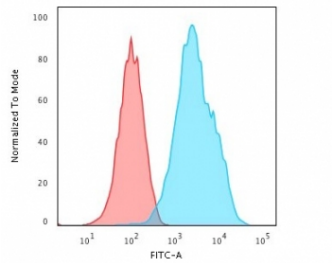
Immunohistochemistry analysis of CD20 Antibody Mouse Monoclonal in human tonsil tissue. FFPE human tonsil demonstrates strong membranous HRP-DAB brown staining in B lymphocytes within germinal centers, with a sharply defined follicular pattern consistent with CD20/MS4A1 expression, while interfollicular T-cell zones show minimal staining. Antigen retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 minutes followed by cooling prior to incubation with CD20 antibody (clone L26).



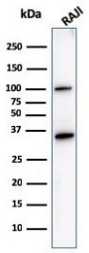
IHC staining of FFPE human lymphoma with CD20 antibody (clone L26). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



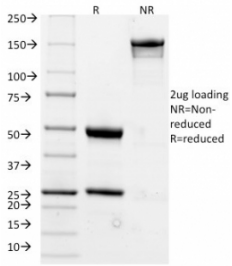
Immunofluorescence staining of human Raji cells with CD20 antibody (green, clone L26) and Reddot nuclear stain (red).



Flow cytometry testing of human Raji cells with CD20 antibody (clone L26); Red=isotype control, Blue= CD20 antibody.



Western blot testing of human Raji lysate with CD20 antibody (clone L26). Predicted molecular weight ~33 kDa.



SDS-PAGE analysis of purified, BSA-free CD20 antibody (clone L26) as confirmation of integrity and purity.

Description

CD20 antibody recognizes CD20, also known as Membrane spanning 4-domains subfamily A member 1, a B-cell specific transmembrane phosphoprotein encoded by the MS4A1 gene. CD20 is localized to the plasma membrane of B lymphocytes, where it regulates B-cell activation, proliferation, and calcium signaling. CD20 Antibody Mouse Monoclonal is widely used in research and diagnostic investigations focused on B-cell identification and lymphoma characterization.

The MS4A1 gene is located on chromosome 11q12.2 and encodes a protein with four transmembrane domains and short cytoplasmic N- and C-terminal tails. CD20 expression begins at the late pre-B-cell stage and persists through mature B

cells but is absent on hematopoietic stem cells and terminally differentiated plasma cells. This restricted expression pattern makes CD20 one of the most reliable markers for identifying B-cell lineage in lymphoid tissues such as tonsil, spleen, lymph node, and bone marrow.

Functionally, CD20 associates with the B-cell receptor signaling complex and contributes to calcium influx following antigen stimulation. Although CD20 lacks a defined soluble ligand, it participates in membrane microdomains that regulate signal transduction and B-cell activation. Aberrant CD20 expression is characteristic of B-cell non-Hodgkin lymphoma, diffuse large B-cell lymphoma, follicular lymphoma, and chronic lymphocytic leukemia. CD20 Antibody Mouse Monoclonal supports evaluation of CD20 distribution and density in both normal and malignant B-cell populations.

Clone L26 is a well-established mouse monoclonal antibody that recognizes an epitope on CD20 suitable for detecting B cells in formalin-fixed tissues. Because CD20 is retained in most mature B-cell neoplasms, CD20 Antibody Mouse Monoclonal is commonly used in studies of lymphoma classification and immune cell profiling. CD20 is also a major therapeutic target in oncology and autoimmune disease, and assessment of CD20 expression remains important in translational research examining treatment response and resistance.

By targeting a lineage-specific B-cell surface antigen, CD20 Antibody Mouse Monoclonal provides a dependable reagent for investigations into B-cell development, lymphoma biology, and immune regulation.

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 titered 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

Human tonsil B cells 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.