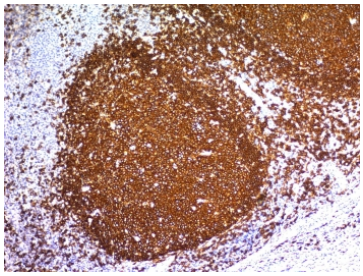
CD20 Antibody L26 / CD20 Mouse Monoclonal Antibody [clone L26] (V7645)

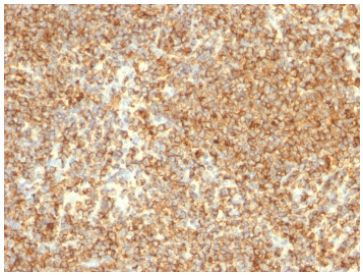
Catalog No.	Formulation	Size
V7645-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7645-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7645SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7645IHC-7ML	Prediluted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

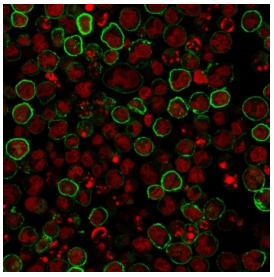
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	L26
Purity	Protein G affinity chromatography
UniProt	P11836
Localization	Predominantly cell surface with some cytoplasmic
Applications	Flow cytometry: 1-2ug/10^6 cells Immunofluorescence: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



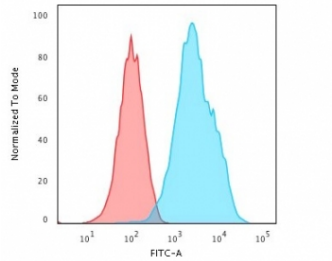
CD20 Antibody L26 IHC Staining of Human Tonsil Tissue. Immunohistochemical analysis of FFPE human tonsil tissue using CD20 Mouse Monoclonal Antibody clone L26. Strong brown DAB staining highlights B-cell-rich lymphoid follicles, with comparatively limited staining in surrounding interfollicular regions. Heat-induced epitope retrieval was performed by boiling sections in 10 mM Tris with 1 mM EDTA (pH 9) for 10-20 minutes.



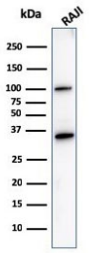
CD20 Antibody L26 IHC Staining of Human Lymphoma Tissue. Immunohistochemical analysis of FFPE human lymphoma tissue using CD20 Mouse Monoclonal Antibody clone L26. Brown DAB staining is observed throughout a large population of lymphoid cells. Heat-induced epitope retrieval was performed by boiling sections in 10 mM Tris with 1 mM EDTA (pH 9) for 10-20 minutes.



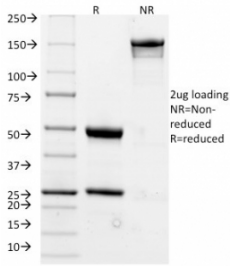
CD20 Antibody L26 IF Staining of Human Raji Cells. Immunofluorescence analysis of human Raji cells using CD20 Mouse Monoclonal Antibody clone L26. Green fluorescence highlights CD20-associated staining predominantly along the cell periphery, while RedDot nuclear staining is shown in red.



CD20 Antibody L26 Flow Cytometry Analysis of Human Raji Cells. Flow cytometry analysis of human Raji cells using CD20 Mouse Monoclonal Antibody clone L26. The blue histogram represents antibody staining, while the red histogram represents the isotype control. A clear rightward fluorescence shift is observed in the antibody-stained population.



CD20 Antibody L26 WB Analysis of Human Raji Cell Lysate. Western blot analysis of human Raji cell lysate using CD20 Mouse Monoclonal Antibody clone L26. A prominent immunoreactive band is detected near 33-37 kDa, consistent with the expected molecular weight of CD20.



CD20 Antibody L26 SDS-PAGE Analysis of Purified Antibody. SDS-PAGE analysis of purified, BSA-free CD20 Mouse Monoclonal Antibody clone L26 under reducing (R) and non-reducing (NR) conditions. The reduced sample shows heavy and light chains near 50 and 25 kDa, respectively, while the non-reduced sample shows a prominent intact antibody band near 150 kDa.

Description

CD20 Antibody L26 / CD20 Mouse Monoclonal Antibody targets CD20, a membrane-associated phosphoprotein encoded by the MS4A1 gene and expressed predominantly during B-cell development. CD20 is present on most mature B lymphocytes but is generally absent from hematopoietic stem cells and terminally differentiated plasma cells. This restricted expression pattern has established CD20 as an important marker for identifying B-cell populations and investigating lymphoid malignancies. Clone L26 is particularly notable for its extensive history in immunohistochemical research and the characterization of B-cell neoplasms.

Developed during the early years of monoclonal antibody-based immunophenotyping, L26 became an important reagent for identifying B lymphocytes in routinely processed tissue sections. Studies published in 1987 by Norton and Isaacson, and by Cartun and colleagues, demonstrated its ability to recognize normal and neoplastic B-cell populations in formalin-fixed, paraffin-embedded tissues. These findings helped establish L26 as a valuable marker for examining lymphoid architecture and distinguishing B-cell malignancies from other hematologic disorders.

A subsequent investigation by Mason and colleagues in 1990 demonstrated that L26 recognizes an intracellular epitope of CD20. This discovery established the molecular identity of the antigen detected by the clone and clarified its relationship to the B-cell surface protein. Recognition of an intracellular epitope distinguishes L26 from certain therapeutic anti-CD20 antibodies that bind extracellular regions of the molecule. Its established performance in fixed tissues contributed to the widespread adoption of L26 in lymphoma research and immunophenotypic characterization.

CD20 belongs to the membrane-spanning 4A protein family and contains four transmembrane domains with intracellular N- and C-terminal regions. The protein participates in membrane-associated signaling processes linked to calcium homeostasis and B-cell activation. Although its precise physiological functions remain incompletely understood, CD20 is closely associated with mature B-cell identity and is frequently investigated in follicular lymphoma, diffuse large B-cell lymphoma, and other B-cell neoplasms.

CD20 Antibody L26 represents a historically established clone for studying CD20 expression in normal and malignant lymphoid populations. Its extensive research history provides a foundation for investigations into B-cell differentiation, lymphoma biology, and changes in CD20 expression associated with disease progression or therapeutic intervention.

For additional CD20 research, explore our CD20 Antibody rIGEL/773, a recombinant monoclonal antibody supported by Western blot, immunohistochemistry, immunofluorescence, flow cytometry, and human protein microarray data.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the CD20 Antibody L26 / CD20 Mouse Monoclonal 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.

Alternate Names

B-lymphocyte antigen CD20 antibody, B-cell surface antigen B1 antibody, B1 antigen antibody, Membrane-spanning 4-domains subfamily A member 1 antibody, MS4A1 antibody, B-lymphocyte surface antigen B1 antibody, CD20 antigen antibody, CD20 molecule antibody

Copyright © NSJ Bioreagents. All rights reserved.