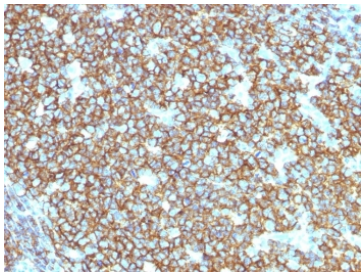
Recombinant CD20 Antibody [clone rIGEL/773] (V3727)

Catalog No.	Formulation	Size
V3727-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3727-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3727SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3727IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

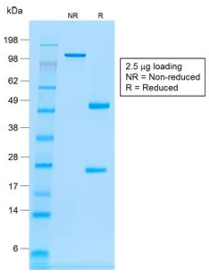
Recombinant | MOUSE MONOCLONAL

Bulk quote request

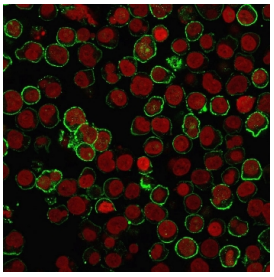
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rIGEL/773
Purity	Protein G affinity chromatography
UniProt	P11836
Localization	Predominantly cell surface with some cytoplasmic
Applications	Immunofluorescence : 1-3ug/ml Flow Cytometry : 1-2ug/million cells Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 2-4ug/ml
Limitations	This recombinant CD20 antibody is available for research use only.



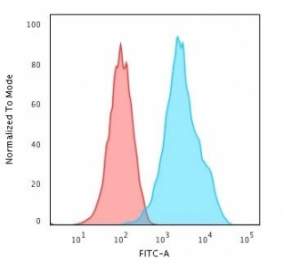
IHC testing of FFPE human tonsil tissue with recombinant CD20 antibody (clone rIGEL/773). Required HIER: steam section in pH6 citrate buffer for 20 min.



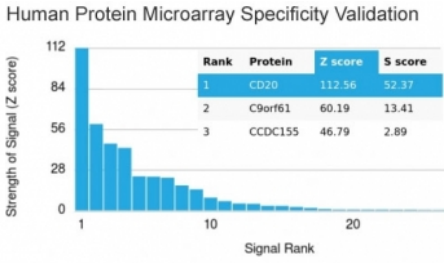
SDS-PAGE analysis of purified, BSA-free recombinant CD20 antibody (clone rIGEL/773) as confirmation of integrity and purity.



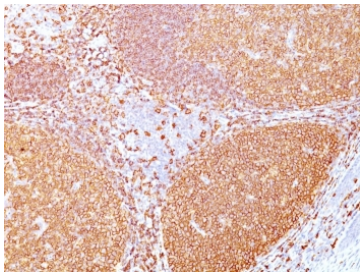
Immunofluorescent staining of human Raji cells with recombinant CD20 antibody (clone rIGEL/773, green) and Reddot nuclear stain (red).



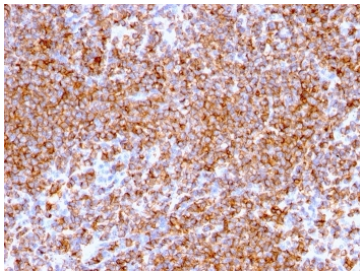
Flow cytometry testing of human Raji cells with recombinant CD20 antibody (clone rIGEL/773); Red=isotype control, Blue= recombinant CD20 antibody.



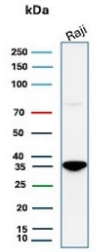
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant CD20 antibody (clone rIGEL/773). These results demonstrate the foremost specificity of the rIGEL/773 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



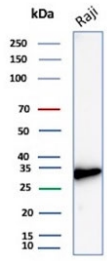
IHC testing of FFPE human tonsil tissue with recombinant CD20 antibody (clone rIGEL/773). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC testing of FFPE human lymph node tissue with recombinant CD20 antibody (clone rIGEL/773). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human Raji cell lysate with recombinant CD20 antibody. Predicted molecular weight ~33 kDa.



Western blot testing of human Raji cell lysate with recombinant CD20 antibody. Predicted molecular weight ~33 kDa.

Description

Recombinant CD20 antibody is designed to detect CD20, a membrane-embedded phosphoprotein encoded by the MS4A1 gene. CD20 is expressed on the surface of pre-B and mature B lymphocytes but absent from stem cells and plasma cells. Its restricted expression and stable surface presence have made CD20 a defining marker for B cells and a central therapeutic target in immunology and oncology. Because of these characteristics, CD20 is extensively studied in immune development, autoimmune disease, and hematologic malignancies.

CD20 has a small extracellular loop and functions as a calcium channel or regulator of calcium flux, contributing to B cell activation and proliferation. While its precise physiological role is not completely defined, its consistent expression pattern across the B cell lineage makes it indispensable in pathology. Alterations in CD20 expression influence immune regulation and have direct clinical implications for therapy.

The Recombinant CD20 antibody clone rIGEL/773 ensures reliable and reproducible recognition of this B cell marker. Recombinant production guarantees uniform performance across experiments, eliminating lot-to-lot variation. Clone rIGEL/773 has been employed in studies of B cell development, autoimmunity, and lymphomas. Peer-reviewed research has reported use of this clone in evaluating CD20 expression in B cell leukemias and lymphomas, highlighting its value for both basic and clinical science.

Research using clone rIGEL/773 has provided insights into how CD20 expression correlates with disease subtype and therapeutic responses. Because CD20 is the target of widely used monoclonal antibody therapies, reliable detection of this antigen is crucial for diagnosis and monitoring. This antibody continues to support investigations into immune regulation, cancer biology, and translational applications that explore new CD20-targeted therapies.

NSJ Bioreagents offers this Recombinant CD20 antibody to support high-quality studies of immune biology, hematology, and therapeutic development. The protein is also known as MS4A1 antibody, B1 antigen antibody, B lymphocyte antigen antibody, and CD20 molecule antibody, illustrating its varied nomenclature across scientific literature.

Application Notes

Titering of the recombinant CD20 antibody may be required 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 CD20 protein was used as the immunogen for this recombinant CD20 antibody.

Storage

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