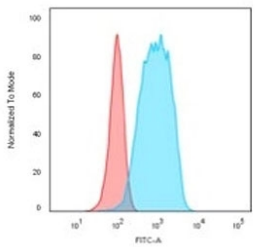
CD20 Antibody [clone IGEL/773] (V2398)

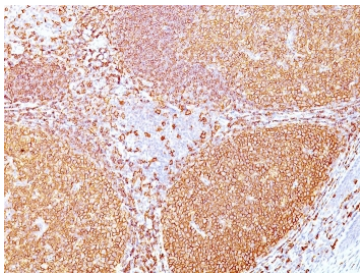
Catalog No.	Formulation	Size
V2398-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2398-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2398SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2398IHC-7ML	Prediluted 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

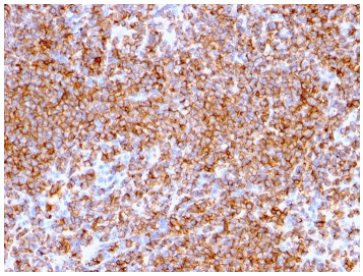
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	IGEL/773
Purity	Protein G affinity chromatography
UniProt	P11836
Localization	Predominantly cell surface with some cytoplasmic
Applications	Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This CD20 antibody is available for research use only.



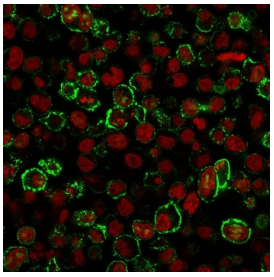
Flow cytometry testing of PFA-fixed human Raji cells with CD20 antibody (clone IGEL/773); Red=isotype control, Blue= CD20 antibody.



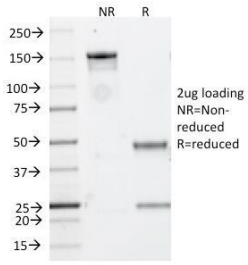
IHC staining of FFPE human tonsil tissue with CD20 antibody (clone IGEL/773).



IHC staining of FFPE human lymphoma tissue with CD20 antibody (clone IGEL/773).



Immunofluorescent staining of PFA-fixed human Raji cells with CD20 antibody (clone IGEL/773, green) and Reddot nuclear stain (red).



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

Description

CD20 antibody clone IGEL/773 is a monoclonal antibody directed against CD20, a transmembrane protein expressed on pre-B and mature B lymphocytes. CD20 functions as a regulator of B cell activation, proliferation, and calcium signaling. Because of its restricted expression in B cells and its absence on plasma cells, CD20 is a key marker in immunology and hematopathology. NSJ Bioreagents provides CD20 antibody clone IGEL/773 for use in B cell research, lymphoma diagnostics, and immune system studies.

CD20 antibody clone IGEL/773 produces strong membranous staining on B lymphocytes in lymphoid tissues, including spleen, tonsil, and lymph nodes. In diagnostic pathology, it is widely used to identify B cell lineage in lymphomas and leukemias. Detection of CD20 helps distinguish B cell neoplasms from T cell malignancies and provides critical information for diagnosis and classification.

In cancer research, CD20 antibody clone IGEL/773 has been used to study the biology of B cell malignancies. CD20 is a therapeutic target for monoclonal antibody therapies, such as rituximab, which deplete B cells in conditions like non-Hodgkin lymphoma and chronic lymphocytic leukemia. Clone IGEL/773 provides an important laboratory reagent for characterizing CD20 expression and monitoring therapeutic responses.

In immunology, CD20 antibody clone IGEL/773 supports studies of B cell development and activation. It has been applied to explore how CD20 contributes to calcium flux and signaling pathways that regulate antibody production. Because CD20 is expressed at defined stages of B cell differentiation, this antibody also aids in mapping B cell maturation.

CD20 antibody clone IGEL/773 has additional applications in autoimmune disease research. B cell depletion therapies targeting CD20 have been effective in conditions such as rheumatoid arthritis and multiple sclerosis. Detection of CD20 expression with clone IGEL/773 helps clarify the role of B cells in autoimmune pathogenesis.

This antibody has been validated in tissue and cell-based systems, providing reproducible membranous staining with minimal background. It is widely cited in immunology and hematology literature. Alternate names include B lymphocyte antigen antibody, B cell differentiation antigen antibody, and MS4A1 antibody.

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. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes.
2. 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

Recombinant CD20 protein was used as the immunogen for this CD20 antibody. The epitope is localized to the cytoplasmic region of the protein.

Storage

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

References (4)

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