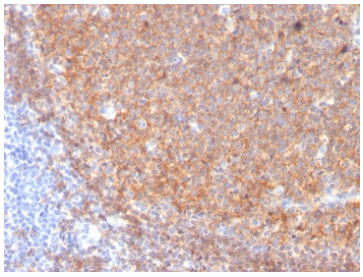
CD19 Antibody [clone CD19/3117] (V7619)

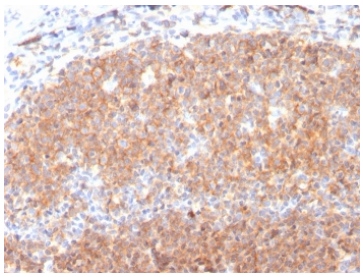
Catalog No.	Formulation	Size
V7619-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7619-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7619SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	CD19/3117
Purity	Protein G affinity chromatography
UniProt	P15391
Localization	Cell surface, cytoplasmic
Applications	Western Blot : 2-4ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This CD19 antibody is available for research use only.



IHC staining of FFPE human tonsil with CD19 antibody (clone CD19/3117). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



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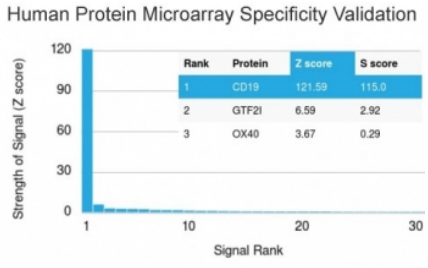
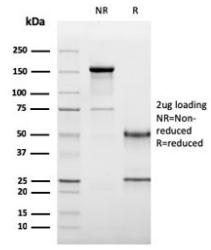
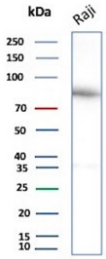


Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD19 antibody (clone CD19/3117). These results demonstrate the foremost specificity of the CD19/3117 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with 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.



SDS-PAGE analysis of purified, BSA-free CD19 antibody (clone CD19/3117) as confirmation of integrity and purity.



Western blot testing of human Raji cell lysate with CD19 antibody. Expected molecular weight: 60-100 kDa depending on glycosylation level.

Description

CD19 antibody detects CD19, a transmembrane glycoprotein expressed throughout most stages of B-cell development. Encoded by the CD19 gene, this protein acts as a coreceptor with the B-cell receptor, amplifying antigen-driven signaling. Because CD19 is a pan-B-cell marker and is consistently expressed in hematologic malignancies, CD19 antibody is essential in immunology, hematology, and translational oncology research.

CD19 is a 95 kDa protein with extracellular immunoglobulin-like domains, a transmembrane region, and a cytoplasmic tail containing multiple tyrosine residues. Upon phosphorylation, these residues recruit kinases and adaptors that activate PI3K, AKT, and MAPK pathways. This lowers the threshold for B-cell activation, enhancing antibody production and immune responsiveness. Its role in signaling makes CD19 central to both normal immune defense and malignant transformation.

The CD19 antibody clone CD19/3117 delivers specific and reproducible detection. Clone CD19/3117 has been employed in peer-reviewed publications studying B-cell lineage identification, leukemia classification, and therapeutic targeting. Its consistent performance supports use in flow cytometry, immunohistochemistry, and functional assays measuring B-cell

activation.

Research using clone CD19/3117 has highlighted how CD19 is not only a lineage marker but also a therapeutic target. Monoclonal antibodies and CAR T-cell therapies directed against CD19 have shown clinical success in B-cell malignancies, and detection with clone CD19/3117 provides an essential tool for evaluating patient samples and validating therapeutic interventions. In addition, CD19 studies have informed understanding of autoimmune disorders, where aberrant B-cell activity contributes to disease pathology.

NSJ Bioreagents supplies this CD19 antibody to support research in B-cell biology, leukemia, and targeted immunotherapy. Alternate designations include B-lymphocyte antigen CD19 antibody, pan-B-cell marker antibody, B-cell receptor coreceptor antibody, B-cell lineage differentiation marker antibody, and CD19 molecule antibody.

Application Notes

Optimal dilution of the CD19 antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein (amino acids 96-281) was used as the immunogen for the CD19 antibody.

Storage

Store the CD19 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).