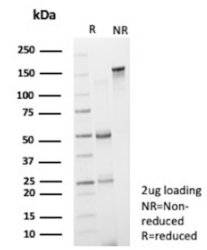
B Lymphocyte Antigen CD19 Antibody [clone CD19/13031R] (V6035)

Catalog No.	Formulation	Size
V6035-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V6035-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V6035SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	CD19/13031R
UniProt	P15391
Localization	Cell membrane, Membrane raft
Applications	ELISA
Limitations	This CD19/B lymphocyte antigen CD19 antibody is available for research use only.



SDS-PAGE analysis of B lymphocyte antigen CD19 Antibody under reducing (R) and non-reducing (NR) conditions. Purified B lymphocyte antigen CD19 Antibody (clone CD19/13031R) was loaded at 2 ug per lane. Under non-reducing conditions, the antibody migrates as an intact IgG at approximately 150 kDa. Under reducing conditions, distinct bands corresponding to the heavy chain at approximately 50 kDa and light chain at approximately 25 kDa are observed, confirming expected antibody structure, purity, and integrity.

Description

CD19 antibody recognizes CD19, a B lymphocyte surface glycoprotein that functions as a critical coreceptor in B cell receptor signaling. B lymphocyte antigen CD19 Antibody (Clone CD19/13031R) is designed for specific detection of CD19 in research applications focused on B cell biology and lymphoid malignancies. CD19 is a member of the immunoglobulin superfamily and is expressed from early pro-B cell stages through mature peripheral B lymphocytes, where it localizes to the plasma membrane. By forming a signaling complex with CD21 and CD81, CD19 amplifies antigen receptor-mediated

signaling and lowers the activation threshold of B cells.

The CD19 gene is located on chromosome 16p11.2 and encodes a type I transmembrane protein containing two extracellular immunoglobulin-like domains, a single transmembrane region, and a cytoplasmic tail enriched in tyrosine residues that become phosphorylated upon B cell activation. These phosphorylation events recruit signaling molecules such as PI3K and adaptor proteins, driving downstream pathways that regulate B cell proliferation, differentiation, and survival. B lymphocyte antigen CD19 Antibody (Clone CD19/13031R) supports investigations into normal B cell development and dysregulated signaling associated with immune disorders and hematologic malignancies.

In normal human tissues, CD19 expression is restricted to B lineage cells within bone marrow, lymph node, tonsil, and spleen. Terminally differentiated plasma cells typically exhibit reduced or absent CD19 expression, reflecting late-stage B cell maturation. Because of its lineage specificity and stable membrane expression, CD19 serves as a reliable pan-B cell marker in immunologic and translational research settings.

Aberrant CD19 expression characterizes most B cell malignancies, including B cell acute lymphoblastic leukemia, chronic lymphocytic leukemia, and various non-Hodgkin lymphomas. CD19 has also become a major therapeutic target in immunotherapy strategies such as chimeric antigen receptor T cell approaches. Accurate detection of CD19 is therefore essential for studies of tumor biology, immune targeting, and therapeutic development.

Clone CD19/13031R is a recombinant rabbit monoclonal antibody engineered for defined sequence identity and consistent lot-to-lot performance. Recombinant production supports reliable binding characteristics and strong membranous staining of CD19-positive B cells with minimal background in non-B cell populations. B lymphocyte antigen CD19 Antibody (Clone CD19/13031R) provides dependable performance for researchers investigating B cell distribution, immune regulation, and B cell-driven disease processes.

Researchers studying B cell markers and immune cell signaling may also be interested in our CD19 Antibody / B Cell Marker Antibody page, featuring a Protein Microarray Validated recombinant monoclonal antibody for B lymphocyte detection and immunology research.

Application Notes

Optimal dilution of the CD19/B lymphocyte antigen CD19 antibody should be determined by the researcher.

Immunogen

Recombinant human CD19 protein was used as the immuongen for the CD19/B lymphocyte antigen CD19 antibody.

Storage

CD19/B lymphocyte antigen CD19 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

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