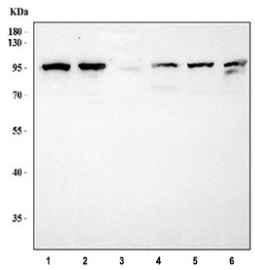
CD19 Antibody (RQ4157)

Catalog No.	Formulation	Size
RQ4157	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P25918
Localization	Cell surface, cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This CD19 antibody is available for research use only.



Western blot testing of 1) human Ramos, 2) human Daudi, 3) rat spleen, 4) mouse spleen, 5) mouse RAW264.7 and 6) mouse EL4 cell lysate with CD19 antibody at 0.5ug/ml. Expected molecular weight: 60~100 kDa depending on glycosylation level.

Description

CD19 is a type I transmembrane glycoprotein that functions as a critical regulator of B cell development, activation, and signaling. Expressed from the early stages of B cell lineage commitment through most phases of differentiation, CD19 acts as a co-receptor that amplifies signaling through the B cell receptor (BCR). A CD19 antibody is widely used in immunology, hematology, and oncology research to study B cell biology and related disorders.

As part of the B cell co-receptor complex, CD19 works in concert with CD21, CD81, and CD225 to lower the threshold for

BCR signaling, enhancing both antigen sensitivity and downstream signaling cascades. Loss or dysfunction of CD19 impairs B cell function and immune responses, underscoring its essential role in adaptive immunity. Employing a CD19 antibody enables researchers to monitor B cell maturation, analyze signaling pathways, and assess immune competency.

Clinically, CD19 has emerged as an important therapeutic and diagnostic marker. It is highly expressed in B cell malignancies, including acute lymphoblastic leukemia (ALL), chronic lymphocytic leukemia (CLL), and various lymphomas. Because of this, CD19 has been targeted by antibody-based therapies and CAR-T cell treatments. Using a CD19 antibody supports studies in cancer immunotherapy, diagnostic pathology, and biomarker validation.

NSJ Bioreagents provides a high-quality CD19 antibody validated for applications such as flow cytometry, immunohistochemistry, and western blotting. Selecting a CD19 antibody from NSJ Bioreagents ensures reliable performance and reproducible results in studies of B cell biology, immune regulation, and cancer research.

Application Notes

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

Immunogen

A recombinant mouse protein corresponding to amino acids R19-M237 was used as the immunogen for the CD19 antibody.

Storage

After reconstitution, the CD19 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.