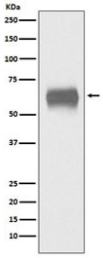
CD5 Antibody / Plasma CD5 Detection Antibody [clone ACII-3] (RQ5134)

Catalog No.	Formulation	Size
RQ5134	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

Bulk quote request

Availability	1-2 weeks
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	ACII-3
Purity	Affinity purified
UniProt	P06127
Applications	Western Blot : 1:1000-1:5000
Limitations	This CD5 Antibody / Plasma CD5 Detection Antibody is available for research use only.



CD5 Antibody for WB. Western blot analysis of CD5 antibody in human plasma lysate using a plasma CD5 detection antibody, clone ACII-3. A band is detected at approximately 55-67 kDa, consistent with the predicted molecular weight of CD5, with size variation reflecting known glycosylation of this membrane glycoprotein. Detection in plasma highlights the ability of this antibody to recognize circulating CD5 in a complex biological fluid, supporting its use for studies of extracellular immune markers and systemic immune signaling.

Description

CD5 (CD5) is a type I transmembrane glycoprotein of the scavenger receptor cysteine-rich (SRCR) superfamily, primarily expressed on the surface of T lymphocytes and a subset of B cells where it regulates antigen receptor signaling. CD5 Antibody / Plasma CD5 Detection Antibody is specifically positioned for detection of CD5 in human plasma, providing a distinct validation context that extends beyond conventional cell lysate-based analysis. CD5 antibody, also known as T cell surface glycoprotein CD5 antibody or LEU1 antibody, is widely used in immune research, with this format enabling investigation of circulating and extracellular CD5 in addition to cell-associated expression.

CD5 functions as a key modulator of T cell receptor signaling, acting to fine-tune activation thresholds and maintain immune balance. While traditionally studied as a membrane-bound protein, CD5 can also be detected in extracellular environments, including plasma, where it may arise from lymphocyte turnover, shedding, or regulated release. The ability to detect CD5 in plasma provides an additional dimension for studying immune system activity, linking cellular signaling mechanisms with systemic immune status. CD5 antibody for plasma detection therefore supports research into both localized immune function and circulating immune markers.

Human plasma represents a highly complex biological matrix containing abundant proteins and potential background interference, making reliable target detection technically challenging. Demonstrated detection of CD5 in plasma lysate highlights the antibody's ability to recognize its target under demanding conditions, supporting its use in studies requiring robust specificity and performance in biologically relevant fluids. CD5 Antibody / Plasma CD5 Detection Antibody is therefore well suited for experiments focused on circulating protein detection, immune monitoring, and extracellular biomarker analysis.

In western blot applications, CD5 is typically observed as a glycosylated protein migrating at an apparent molecular weight higher than its predicted size due to post-translational modification. Detection of CD5 in human plasma lysate confirms that this antibody can recognize glycosylated forms of the protein in a non-cellular context, expanding its applicability to specialized western blot workflows involving serum or plasma-derived samples. This capability distinguishes it from antibodies validated only in cell lysates or tissue extracts.

Detection of CD5 in plasma may be relevant to studies of immune activation, inflammatory signaling, and disease-associated changes in lymphocyte behavior. Circulating CD5 has been explored in the context of systemic immune responses, making CD5 antibody a useful tool for research examining immune biomarkers and extracellular protein dynamics. Its ability to bridge cellular and circulating detection contexts supports integrated approaches to studying immune system function.

This recombinant rabbit monoclonal antibody clone ACII-3 provides consistent recognition of CD5 and supports reliable detection in complex sample types, including human plasma. Its performance in both cellular and extracellular contexts makes it particularly valuable for studies that require flexibility across multiple experimental systems.

Because CD5 is a central regulator of lymphocyte signaling and immune function, CD5 antibody for plasma detection is widely used in studies of circulating immune markers, systemic immune responses, and extracellular protein analysis, providing a distinct advantage for research focused on non-cellular sample types.

A full range of CD5 antibody reagents for immunohistochemistry, western blot, and flow cytometry is available on our CD5 Antibody collection page.

Application Notes

Optimal dilution of the CD5 Antibody / Plasma CD5 Detection Antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human CD5 was used as the immunogen for the CD5 antibody.

Storage

Store the CD5 antibody at -20oC.

Alternate Names

CD5 plasma antibody, CD5 circulating protein antibody, CD5 soluble detection antibody, CD5 blood biomarker antibody, CD5 extracellular antibody