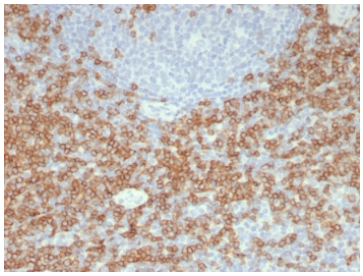
CD5 Antibody C5/8117R / Adaptive Immune Response Marker Antibody [clone C5/8117R] (V4168)

Catalog No.	Formulation	Size
V4168-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4168-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4168SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

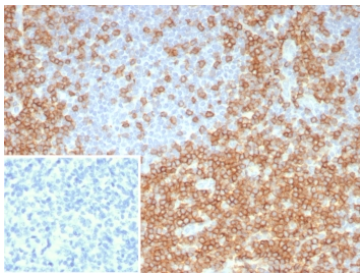
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	C5/8117R
Purity	Protein A/G affinity
UniProt	P06127
Localization	Cell surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Limitations	This CD5 Antibody C5/8117R / Adaptive Immune Response Marker Antibody is available for research use only.



CD5 Antibody C5/8117R for IHC. Immunohistochemistry analysis of CD5 antibody staining in FFPE human tonsil tissue using an adaptive immune response marker antibody, clone C5/8117R. Strong membranous staining is observed in interfollicular T lymphocytes with dense labeling of T cell zones surrounding germinal centers, while follicular B cell regions remain largely negative. The staining pattern highlights normal tonsillar architecture and reflects the role of CD5 in antigen-driven adaptive immune responses within lymphoid tissue. Heat-induced epitope retrieval was performed using pH 9 Tris-EDTA buffer for 20 minutes followed by cooling prior to antibody incubation.



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Description

CD5 (CD5 molecule) is a type I transmembrane glycoprotein of the scavenger receptor cysteine-rich (SRCR) superfamily, expressed on T lymphocytes and a subset of B cells involved in antigen-driven immune responses. CD5 Antibody C5/8117R / Adaptive Immune Response Marker Antibody is used to detect CD5 in the context of adaptive immunity, where it contributes to the regulation, amplification, and fine-tuning of antigen-specific lymphocyte responses. CD5 antibody, also known as T cell surface glycoprotein CD5 antibody or LEU1 antibody, is widely used to study T cell-mediated immunity and adaptive immune system dynamics.

Adaptive immune responses depend on precise recognition of antigen and subsequent activation of T lymphocytes through the T cell receptor. CD5 plays a key role in modulating these signaling events by adjusting activation thresholds and shaping the strength of downstream responses. Because CD5 influences how T cells interpret antigenic signals, its expression provides important context for understanding immune response magnitude, sensitivity, and specificity. CD5 antibody is therefore frequently used in studies examining antigen recognition, signal integration, and functional immune responses.

CD5-positive T lymphocytes are central to adaptive immunity, participating in clonal expansion, differentiation into effector and memory subsets, and coordination of immune responses across tissues. Detection of CD5 enables identification of these populations within lymphoid organs, peripheral tissues, and experimental systems, supporting analysis of immune activation, proliferation, and long-term immune memory formation. CD5 antibody is particularly useful for studying how adaptive immune responses evolve over time and how lymphocytes respond to repeated or sustained antigen exposure.

In addition to T cells, CD5 expression on certain B cell subsets contributes to adaptive immune regulation, particularly in contexts involving antibody production and immune modulation. These CD5-positive B cells may play roles in regulating immune responses and maintaining balance within the adaptive immune system. CD5 antibody enables detection of these populations, providing a broader view of adaptive immunity beyond T cell biology alone.

CD5 is also relevant in disease settings where adaptive immune responses are altered, including infection, autoimmune disease, and cancer. Changes in CD5 expression or signaling can influence the effectiveness and regulation of immune responses, making CD5 antibody a valuable tool for studying disease-associated immune dynamics and therapeutic intervention strategies.

This antibody is suitable for detecting CD5 in research applications focused on adaptive immunity and antigen-driven responses. Its ability to identify CD5-positive lymphocytes supports studies of immune response mechanisms, antigen recognition, and lymphocyte functional behavior.

Because CD5 is closely linked to adaptive immune responses, CD5 antibody is widely used in studies of T cell-mediated immunity, antigen-specific activation, and immune system function.

For additional CD5 research, explore our CD5 Antibody CD5/2416, a mouse monoclonal antibody with HuProt protein microarray specificity validation and supporting Western blot, IHC, and flow cytometry data.

Application Notes

Optimal dilution of the CD5 Antibody C5/8117R / Adaptive Immune Response Marker Antibody should be determined by the researcher.

Immunogen

Recombinant protein corresponding to the extracellular domain of human CD5 was used as the immunogen for the recombinant CD5 antibody.

Storage

Aliquot the recombinant CD5 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

CD5 adaptive immunity antibody, CD5 adaptive immune marker antibody, CD5 T cell response antibody, CD5 antigen response marker antibody, CD5 immune response antibody

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