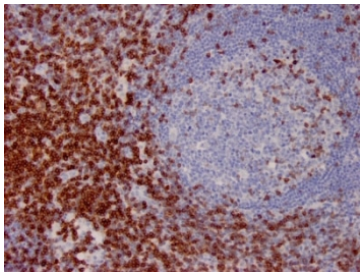
CD7 Antibody CD7/3737 / Immune Profiling Marker Antibody [clone CD7/3737] (V8215)

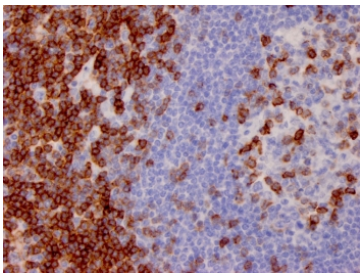
Catalog No.	Formulation	Size
V8215-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8215-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8215SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

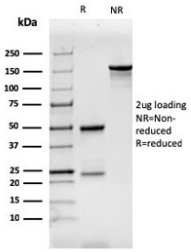
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	CD7/3737
Purity	Protein G affinity chromatography
UniProt	P09564
Localization	Cell surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml ELISA (order BSA-free format for coating)
Limitations	This CD7 Antibody CD7/3737 / Immune Profiling Marker Antibody is available for research use only.



CD7 Antibody CD7/3737 Lymph Node IHC. Immunohistochemistry analysis of CD7 / T-cell antigen CD7 in human lymph node tissue demonstrates strong HRP-DAB brown membranous staining of lymphocytes concentrated in paracortical regions with relative sparing of germinal centers, consistent with CD7 expression across T cell populations in immune profiling contexts, while surrounding stromal areas remain largely negative. Heat-induced epitope retrieval was performed in pH 9 Tris-EDTA buffer prior to antibody incubation, supporting its use as an immune profiling marker in FFPE tissue sections.



CD7 Antibody Human Lymph Node IHC. Immunohistochemistry analysis of CD7 / T-cell antigen CD7 in human lymph node tissue shows strong HRP-DAB brown membranous staining of densely packed lymphocytes within paracortical regions with relative sparing of germinal centers, consistent with CD7 expression across T cell populations used in immune profiling, while surrounding areas remain largely negative. Heat-induced epitope retrieval was performed in pH 9 Tris-EDTA buffer prior to antibody incubation, supporting its use as an immune profiling marker in FFPE tissue sections.



SDS-PAGE analysis of purified, BSA-free CD7 antibody as confirmation of integrity and purity.

Description

Cluster of Differentiation 7 (CD7) is a transmembrane glycoprotein (CD7) belonging to the immunoglobulin superfamily and is broadly expressed on T lymphocytes and natural killer (NK) cells, where it localizes to the plasma membrane and participates in immune signaling and cellular communication. CD7 Antibody CD7/3737 / Immune Profiling Marker Antibody is uniquely positioned for comprehensive immunophenotyping and immune profiling applications, enabling robust detection of CD7 across diverse lymphocyte populations and supporting high-resolution analysis of immune system composition and heterogeneity.

CD7 antibody, also referred to as T-cell antigen CD7 antibody, is widely used as a foundational marker in immune profiling workflows due to its consistent expression across the majority of T lymphocytes. This stable expression profile makes CD7 an essential component of immunophenotyping strategies designed to identify, quantify, and characterize T cell populations within complex biological samples such as peripheral blood, lymphoid tissues, and tumor microenvironments.

This CD7 Antibody is uniquely positioned for immune profiling studies where accurate delineation of immune cell populations is critical. CD7 enables clear separation of T lymphocytes from other hematopoietic cell types, including B cells and myeloid cells, providing a reliable anchor point for defining immune cell composition. This is particularly important in high-complexity samples where multiple immune populations coexist and precise identification is required for downstream analysis.

In advanced immunophenotyping workflows, CD7 is frequently combined with markers such as CD3, CD4, CD8, CD2, and CD5 to define T cell subsets and to investigate functional diversity within the immune system. This combinatorial marker strategy allows researchers to resolve immune cell heterogeneity at a deeper level, supporting studies of immune activation states, differentiation pathways, and population dynamics.

CD7 expression also provides insight into immune system organization and regulatory balance, as its presence reflects both lineage identity and participation in immune signaling networks. This makes it a valuable marker for studying immune homeostasis, immune dysregulation, and changes in cellular composition associated with disease states, including infection, inflammation, and cancer.

In translational research contexts, CD7-based immune profiling is used to evaluate immune responses, monitor changes in lymphocyte populations, and assess the impact of therapeutic interventions. Its consistent and broad expression supports reproducible detection across different sample types and experimental platforms, making it a dependable marker for longitudinal and comparative studies.

Additionally, CD7 detection supports integration across multiple analytical platforms, including flow cytometry, immunohistochemistry, and molecular assays, allowing researchers to correlate cellular distribution with protein expression and functional outcomes. This multi-platform compatibility enhances the depth and reliability of immune profiling studies.

CD7 Antibody (clone CD7/3737) as an Immune Profiling Marker Antibody provides a highly versatile and biologically relevant tool for analyzing immune cell populations, enabling detailed immunophenotyping, supporting studies of immune system complexity, and facilitating comprehensive investigation of lymphocyte biology across diverse experimental systems.

This antibody is part of a broader CD7 antibody collection designed to support T cell biology, immune profiling, and hematologic cancer research.

Application Notes

Optimal dilution of the CD7 Antibody CD7/3737 / Immune Profiling Marker Antibody should be determined by the researcher.

Immunogen

A recombinant human full-length CD7 protein was used as the immunogen for this CD7 antibody.

Storage

Store the CD7 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CD7 immune profiling antibody, CD7 immunophenotyping antibody, CD7 lymphocyte profiling antibody, T-cell antigen CD7 antibody, CD7 immune analysis antibody

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