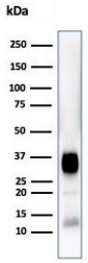
CD7 Antibody for WB / CD7 Western Blot Antibody [clone CD7/3868R] (V4564)

Catalog No.	Formulation	Size
V4564-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4564-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4564SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

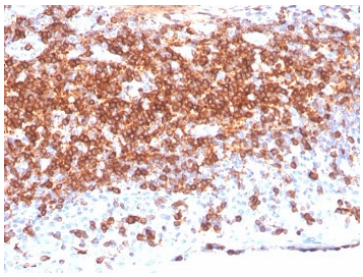
Recombinant RABBIT MONOCLONAL

Bulk quote request

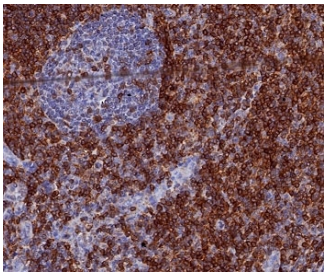
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	CD7/3868R
Purity	Protein A/G affinity
UniProt	P09564
Localization	Cell Surface
Applications	1-2ug/ml1-2ug/ml for 30 min at RT
Limitations	This CD7 Antibody for WB / CD7 Western Blot Antibody is available for research use only.



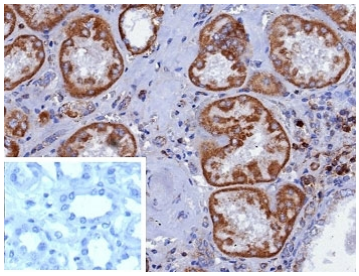
CD7 Antibody for WB. Western blot analysis of human Jurkat cell lysate using CD7 / T-cell antigen CD7 demonstrates a prominent band detected at approximately 25-40 kDa, consistent with the predicted molecular weight of CD7 and reflecting variable glycosylation states of this membrane glycoprotein. The observed band pattern aligns with known post-translational modification of CD7, where glycosylation contributes to apparent molecular weight shifts above the core protein size, supporting accurate identification of CD7 expression in T cell-derived lysates.



IHC staining of FFPE human lymph node tissue with CD7 antibody (clone CD7/3868R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human tonsil tissue with CD7 antibody (clone CD7/3868R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human kidney tissue with CD7 antibody (clone CD7/3868R). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

Cluster of Differentiation 7 (CD7) is a transmembrane glycoprotein (CD7) belonging to the immunoglobulin superfamily and is primarily expressed on T lymphocytes and natural killer (NK) cells, where it localizes to the plasma membrane and participates in immune signaling. CD7 Antibody for WB / CD7 Western Blot Antibody (clone CD7/13034R) is designed for western blot analysis, enabling reliable detection of CD7 protein in denatured lysates and supporting protein-level validation in immunology and cell signaling studies.

CD7 antibody, also referred to as T-cell antigen CD7 antibody, is widely used in western blot to confirm protein expression and assess relative abundance across immune-derived samples. Under SDS-PAGE conditions, CD7 is typically detected as a band consistent with its predicted molecular weight, with migration behavior influenced by glycosylation and membrane-associated properties. This makes CD7 western blot particularly valuable for verifying protein identity and distinguishing CD7-positive samples such as T cell lines and lymphoid tissues from CD7-negative populations.

This CD7 Antibody for WB is uniquely positioned for analytical consistency and reproducibility through its recombinant rabbit monoclonal format. Clone CD7/13034R provides highly specific target recognition with minimal lot-to-lot variability, which is critical for experiments requiring reproducible band intensity and migration patterns. In western blot applications, this results in sharp, well-resolved bands with low non-specific background, supporting confident interpretation of protein expression data across independent experiments.

Western blot analysis of membrane proteins such as CD7 presents specific technical challenges, including variable solubilization efficiency and post-translational modification effects. The defined epitope recognition of clone CD7/13034R supports consistent detection despite these challenges, allowing researchers to obtain reliable band patterns even in complex lysates. This is particularly important when comparing samples with differing membrane protein composition or extraction conditions.

In protein expression studies, CD7 western blot analysis enables comparison across different immune cell populations, experimental treatments, and signaling conditions. Researchers can assess CD7 regulation during T cell activation, differentiation, or immune response modulation. The consistent performance of recombinant monoclonal antibodies supports longitudinal studies and cross-experimental comparisons where reproducibility is essential.

Overall, CD7 Antibody for WB using clone CD7/13034R provides precise, reproducible, and high-confidence detection of CD7 protein. Its strong performance in western blot applications supports accurate protein identification, comparative expression analysis, and robust validation of CD7 expression in immune-focused research 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 for WB / CD7 Western Blot Antibody should be determined by the researcher.

Immunogen

Recombinant full-length human CD7 protein was used as the immunogen for the CD7 antibody.

Storage

Aliquot the CD7 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

CD7 western blot antibody, CD7 WB antibody, CD7 monoclonal antibody, T-cell antigen CD7 antibody, CD7 immunoblot antibody

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