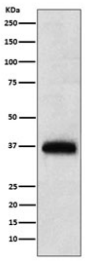
CD7 Antibody for Human PBM WB / Human CD7 Western Blot Antibody [clone ADIG-3] (RQ5277)

Catalog No.	Formulation	Size
RQ5277	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	ADIG-3
Purity	Affinity purified
UniProt	P09564
Applications	Western Blot : 1:500-1:2000
Limitations	This CD7 Antibody for Human PBM WB / Human CD7 Western Blot Antibody is available for research use only.



CD7 Antibody for Human PBM WB. Western blot analysis of human peripheral blood mononuclear (PBM) lysate with CD7 antibody ADIG-3 demonstrates a band at approximately 25-40 kDa, consistent with the predicted molecular weight of CD7 and reflecting known glycosylation-dependent mobility of this membrane glycoprotein, supporting detection of endogenous CD7 expression in primary human immune cells.

Description

Cluster of Differentiation 7 (CD7) is a transmembrane glycoprotein (CD7) expressed on T lymphocytes and natural killer (NK) cells, where it functions in immune activation, co-stimulatory signaling, and cellular communication within the immune system. CD7 Antibody for Human PBM WB / Human CD7 Western Blot Antibody (clone ADIG-3) is specifically optimized for western blot detection of CD7 in human peripheral blood mononuclear (PBM) samples, enabling

physiologically relevant protein analysis in primary immune cells.

CD7 antibody, also known as T-cell antigen CD7 antibody, is commonly used in western blot to confirm CD7 expression in human immune-derived samples. In PBM lysates, CD7 western blot reveals a distinct band corresponding to CD7 expressed on circulating T lymphocytes and NK cells, providing direct evidence of endogenous protein expression in a native biological context. This is particularly important for studies focused on human immunology, where primary cell systems more accurately reflect in vivo biology than immortalized cell lines or overexpression systems.

This CD7 Antibody for Human PBM WB is uniquely positioned for translational and clinically relevant research due to its demonstrated performance in primary human samples. The ability to detect CD7 in PBM lysates supports studies investigating immune activation, disease-associated alterations in lymphocyte populations, and responses to therapeutic interventions. This makes the antibody especially valuable for bridging basic research findings with human biology.

In western blot workflows, clone ADIG-3 provides strong and reproducible band detection in CD7-positive PBM samples, enabling comparison across donors, treatment conditions, and experimental variables. Researchers can use this antibody to assess changes in CD7 expression associated with immune activation, differentiation, or pathological states such as leukemia or immune dysregulation.

The use of primary human PBM material enhances the biological relevance of the data, allowing researchers to validate findings in a system that closely mirrors physiological conditions. This is particularly advantageous in studies of immune signaling pathways, T cell function, and disease mechanisms where accurate representation of human biology is essential.

Additionally, western blot analysis of PBM samples provides a complementary approach to flow cytometry by confirming protein expression at the biochemical level. This dual validation strengthens conclusions and supports robust experimental design.

Overall, CD7 Antibody for Human PBM WB using clone ADIG-3 provides reliable detection of CD7 in primary human immune cells, supporting physiologically relevant protein analysis and enabling detailed investigation of T cell biology in western blot-based research applications.

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 Human PBM WB / Human CD7 Western Blot Antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human CD7 was used as the immunogen for the CD7 antibody.

Storage

Store the CD7 antibody at -20oC.

Alternate Names

CD7 human PBM antibody, CD7 human western blot antibody, CD7 immune cell antibody, T-cell antigen CD7 antibody, CD7 immunoblot antibody