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CD7 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13714c

Product Information

Application	WB, E
Primary Accession	P09564
Other Accession	NP_006128.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33662
Calculated MW	25409
Antigen Region	63-92

Additional Information

Gene ID	924
Other Names	T-cell antigen CD7, GP40, T-cell leukemia antigen, T-cell surface antigen Leu-9, TP41, CD7, CD7
Target/Specificity	This CD7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 63-92 amino acids from the Central region of human CD7.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CD7 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CD7
Function	Transmembrane glycoprotein expressed by T-cells and natural killer (NK) cells and their precursors (PubMed:7506726). Plays a costimulatory role in T-cell activation upon binding to its ligand K12/SECTM1 (PubMed:10652336).

	In turn, mediates the production of cytokines such as IL-2 (PubMed:1709867). On resting NK-cells, CD7 activation results in a significant induction of interferon-gamma levels (PubMed:7506726).
Cellular Location	Membrane; Single-pass type I membrane protein.
Tissue Location	Expressed on T-cells and natural killer (NK) cells and their precursors.

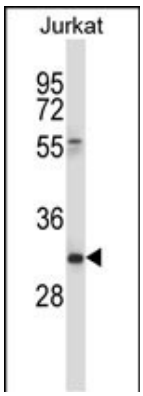
Background

This gene encodes a transmembrane protein which is a member of the immunoglobulin superfamily. This protein is found on thymocytes and mature T cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development.

References

Rohrs, S., et al. J Hematol Oncol 3, 15 (2010) :
Rogers, S.L., et al. Mol. Cancer 9, 41 (2010) :
Koh, H.S., et al. Mol. Cells 28(6):553-558(2009)
Yoo, E.H., et al. Korean J Lab Med 29(6):491-496(2009)
SundarRaj, S., et al. Mol. Immunol. 46(16):3411-3419(2009)

Images



CD7 Antibody (Center) (Cat. #AP13714c) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the CD7 antibody detected the CD7 protein (arrow).