

Store at
-20C
#35368**CD7 Antibody**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	38-40	Rabbit	#P09564	924

Product Usage Information

Application
Western Blotting

Dilution
1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

CD7 Antibody recognizes endogenous levels of total CD7 protein. This antibody cross-reacts with an unidentified protein of 90 kDa in some cell extracts.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ile69 of human CD7 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

CD7 is a type-I transmembrane glycoprotein belonging to the immunoglobulin superfamily. CD7 is one of the earliest surface markers to be expressed on the surface of developing T cells and its expression is maintained throughout maturation of multiple T cell subsets and NK cells (1-3). Engagement of CD7 through binding its ligand, SECTM1, has been shown to promote tyrosine phosphorylation of its cytoplasmic domain, recruitment of PI3K, and delivery of costimulatory signals for T cell activation (4-6). While CD7 is expressed on normal T cells, it is also highly expressed in a variety of T cell malignancies, which has poised it as a potential target of immunotherapy (7-9).

Background References

- Haynes, B.F. et al. (1988) *J Exp Med* 168, 1061-80.
- Lobach, D.F. et al. (1985) *J Immunol* 135, 1752-9.
- Rabinowich, H. et al. (1994) *J Immunol* 152, 517-26.
- Ward, S.G. et al. (1995) *Eur J Immunol* 25, 502-7.
- Chan, A.S. et al. (1997) *J Immunol* 159, 934-42.
- Lyman, S.D. et al. (2000) *J Biol Chem* 275, 3431-7.
- Cooper, M.L. et al. (2018) *Leukemia* , .
- Png, Y.T. et al. (2017) *Blood Adv* 1, 2348-2360.
- Gomes-Silva, D. et al. (2017) *Blood* 130, 285-296.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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