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CD7

Catalog # PVGS1857

Product Information

Primary Accession	P09564
Species	Human
Sequence	Ala26-Pro180
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per g by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized CD7 hFc Chimera, Human at 1 g/ml (100 l/well) on the plate can bind Biotinylated Anti-CD7 Antibody, hFc Tag. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	43.19 kDa
Formulation	Lyophilized from a 0.22 m filtered solution in PBS , (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 g/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

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 Background	CD7, also known as Leu-9, is an approximately 40 kDa glycosylated and palmitoylated transmembrane protein in the immunoglobulin superfamily.CD7 is expressed on T cells, NK cells , myeloid progenitor cells, and CD19 B progenitor cells. Among CD8 T cells, the CD7-bright population preferentially contains na ve and memory cells, while more weak expressors are primarily effector cells.

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.