

CD7
Catalog # PVGS1878

Specification

CD7 - Product Information

Primary Accession [P50283](#)
Species
Mouse

Sequence
Gln24-Pro150

Purity
> 95% as determined by Bis-Tris PAGE
> 95% as determined by HPLC

Endotoxin Level
Less than 1EU per µg by the LAL method.

Expression System
HEK293

Theoretical Molecular Weight
41 kDa

Formulation **Lyophilized from a 0.22 µm filtered solution in PBS (pH 7.4).**

Reconstitution
Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/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.

CD7 - Additional Information

Gene ID 12516

Other Names
T-cell antigen CD7, 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 naïve and memory cells, while more weak expressors are primarily effector cells.

CD7 - Protein Information

Name Cd7

Function

Transmembrane glycoprotein expressed by T-cells and natural killer (NK) cells and their precursors. Plays a costimulatory role in T-cell activation upon binding to its ligand K12/SECTM1. In turn, mediates the production of cytokines such as IL-2. On resting NK-cells, CD7 activation results in a significant induction of gamma-interferon levels.

Cellular Location

Membrane; Single-pass type I membrane protein.

CD7 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD7 - Images