

**CD7**  
**Catalog # PVGS1878****Specification**

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**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**