

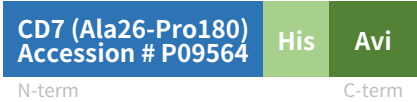
Rev05  
 Update: Aug,11,2025

**DATASHEET**

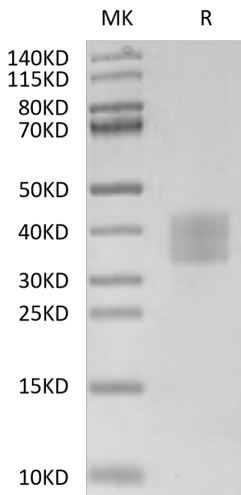
# CD7, His & Avi, Human

Cat. No.: Z04029

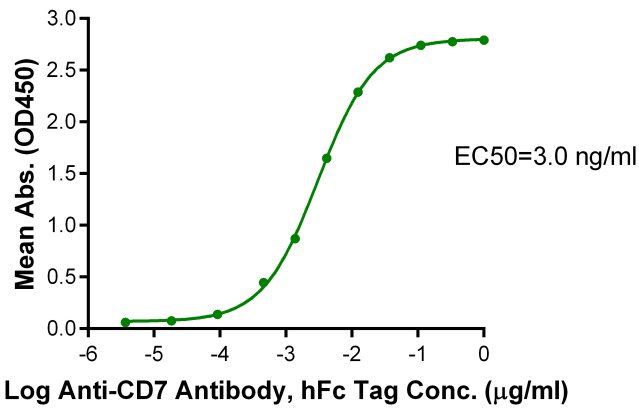
## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized CD7, His & Avi, Human at 1µg/ml (100µl/well) on the plate can bind Human SECTM1, hFc Tag. Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	19.3 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 32-45 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution in PBS, (pH 7.4).
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage &amp; Stability</b>	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.

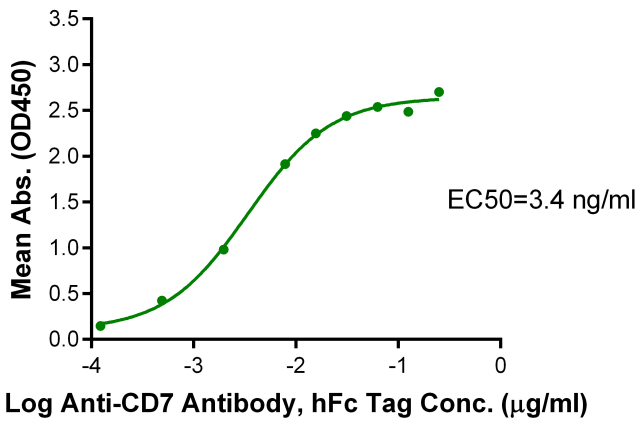
## Examples



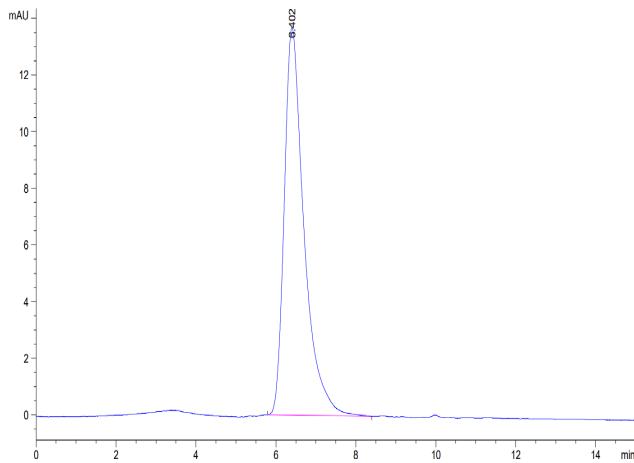
CD7, His & Avi, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Immobilized CD7, His & Avi, Human, His Tag at 0.5 µg/ml (100 µL/well) on the plate. Dose response curve for Anti-CD7 Antibody, hFc Tag with the EC50 of 3.0 ng/ml determined by ELISA.



Immobilized CD7, His & Avi, Human, His Tag at 0.5 µg/ml (100 µL/well) on the plate. Dose response curve for Anti-CD7 Antibody, hFc Tag with the EC50 of 3.4 ng/ml determined by ELISA.



The purity of CD7, His & Avi, Human is greater than 95% as determined by SEC-HPLC.

## Background

**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.

**Synonyms :** CD7 molecule; CD7; LEU-9; Tp40; TP41; GP40

**For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.**

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