Recombinant Human CD7 Protein

Catalog No.: RP02864

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Sequence Information

Species
Human

Gene ID
924

Swiss Prot
P09564

Tags
C-hFc

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

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW
42.39 kDa

Observed MW
55-65 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

Basic Information

Description
Recombinant Human CD7 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala26-Pro180) of human CD7 (Accession #NP_006128.1) fused with a hFc tag at the C-terminus.

Activity
Immobilized Human CD7, hFc Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Anti-CD7 Antibody, hFc Tag with the EC_{50} of 27.7ng/ml determined by ELISA.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

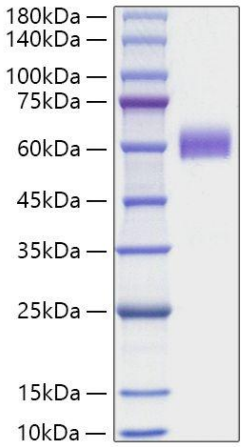
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

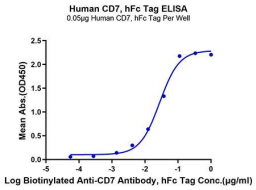
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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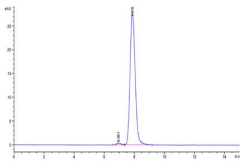
Validation Data



Recombinant Human CD7 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Human CD7, hFc Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Anti-CD7 Antibody, hFc Tag with the EC_{50} of 27.7ng /ml determined by ELISA.



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