

Biotinylated Recombinant Human Cell surface A33 antigen/GPA33 Protein

Catalog No.: RP02370B **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	10223	Q99795-1

Tags

C-His&Avi

Synonyms

A33;GPA33

Background

Glycoprotein A33 (GPA33) is also known as Cell surface A33 antigen, is a single-pass type I membrane protein which is expressed in normal gastrointestinal epithelium and in 95% of colon cancers. GPA33 The predicted mature protein has a 213-amino acid extracellular region, a single transmembrane domain, and a 62-amino acid intracellular tail. The sequence of the extracellular region contains 1 Ig-like C2-type (immunoglobulin-like) domain and 1 Ig-like V-type (immunoglobulin-like) domain characteristic of the CD2 subgroup of the immunoglobulin (Ig) superfamily, which contains. GPA33 may play a role in cell-cell recognition and signaling.

Basic Information

Description

Biotinylated Recombinant Human Cell surface A33 antigen/GPA33 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Ile22-Val235) of Human GPA33/A33 fused with a His tag and Avi tag at the C-terminal.

Bio-Activity

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC

Calculated MW **Observed MW**

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

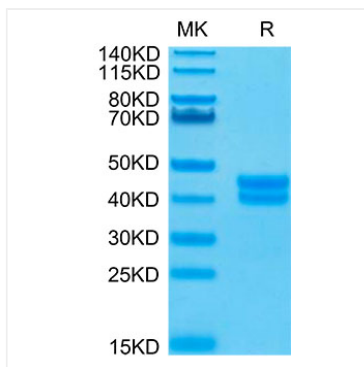
Contact

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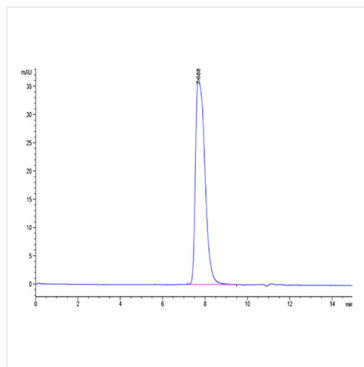
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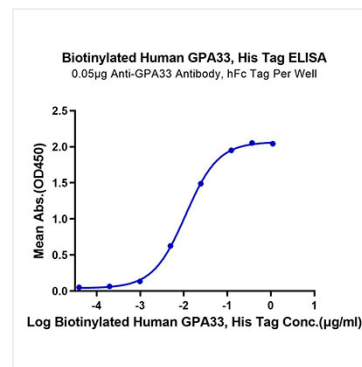
Validation Data



Biotinylated Human GPA33 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Biotinylated Human GPA33 is greater than 95% as determined by SEC-HPLC.



Immobilized Anti-GPA33 Antibody, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human GPA33, His Tag with the EC₅₀ of 11.0ng/ml determined by ELISA.