

# Biotinylated Human GPA33/A33 Protein

Cat. No. GPA-HM433B

## Description

<b>Source</b>	Recombinant Biotinylated Human GPA33/A33 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ile22-Val235.
<b>Accession</b>	Q99795-1
<b>Molecular Weight</b>	The protein has a predicted MW of 26.5 kDa. Due to glycosylation, the protein migrates to 35-45 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

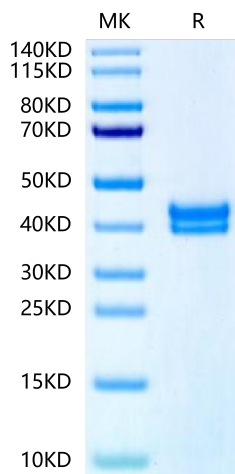
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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.

## Assay Data

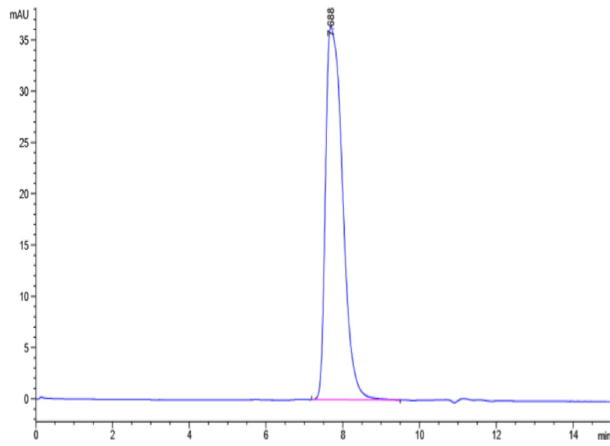
### Bis-Tris PAGE



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

### SEC-HPLC

Assay Data



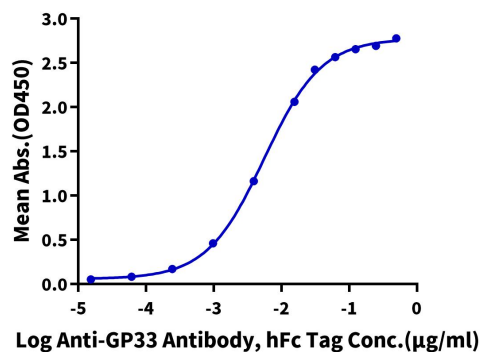
The purity of Biotinylated Human GPA33 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Biotinylated Human GPA33, His Tag ELISA**

0.05µg Biotinylated Human GPA33, His Tag Per Well



Immobilized Biotinylated Human GPA33, His Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-GP33 Antibody, hFc Tag with the EC50 of 5.6ng/ml determined by ELISA (QC Test).