

## GPA33/A33 Protein, Human, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms:	A33;GPA33;MGC129986;MGC129987;Glycoprotein A33
Protein Construction:	Ile22-Val235
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q99795-1
Molecular Weight:	26.5 kDa (predicted). Due to glycosylation, the protein migrates to 35-45 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	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 33.2ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

### Reference

Hurwitz H, et al. A Phase I, first-in-human, open label, dose escalation study of MGD007, a humanized gpA33 × CD3 dual-affinity re-targeting (DART®) protein in patients with relapsed/refractory metastatic colorectal carcinoma [J]. Journal for Immunotherapy of Cancer, 2014, 2(Suppl 3):P86-P86.

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