

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

General Information

Synonyms:	A33;Glycoprotein A33;MGC129986;GPA33;MGC129987
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 28-40 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Immobilized Human GPA33, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-GPA33 Antibody, hFc Tag with the EC50 of 4.8ng/ml determined by ELISA.2. Anti-GPA33 Antibody, hFc Tag captured on CM5 Chip via Protein A can bind Human GPA33, His Tag with an affinity constant of 0.69 nM as determined in SPR assay.
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. <small>Actual storage temperature shall be subject to the COA.</small>
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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481