

**Synonym**

GPA33,A33

**Source**

Human GPA33, His Tag(GP3-H5224) is expressed from human 293 cells (HEK293). It contains AA Ile 22 - Val 235 (Accession # [AAH74830](#)).

Predicted N-terminus: Ile 22

**Molecular Characterization**

GPA33(Ile 22 - Val 235)  
AAH74830 Poly-his

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 24.4 kDa. The protein migrates as 33-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>96% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

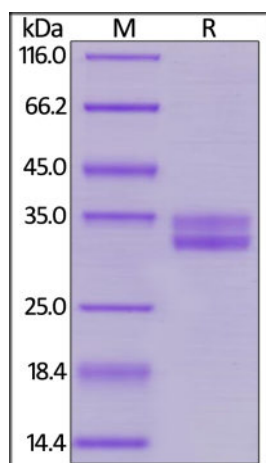
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

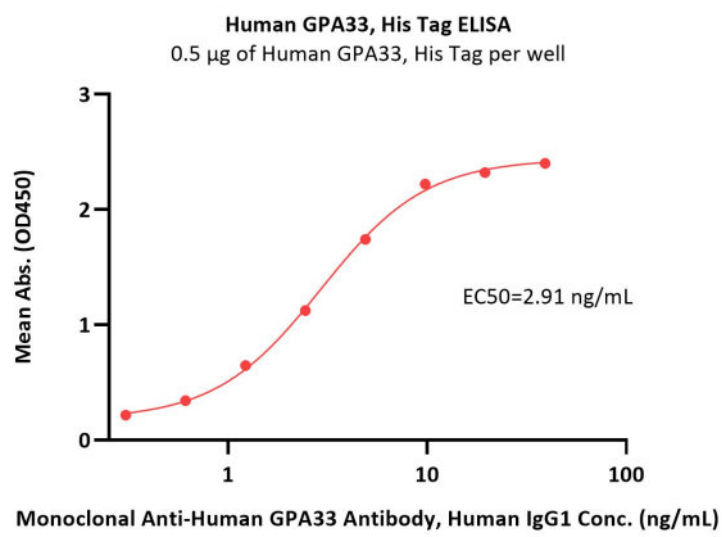
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Human GPA33, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 96%.

**Bioactivity-ELISA**



Immobilized Human GPA33, His Tag (Cat. No. GP3-H5224) at 5 µg/mL (100 µL/well) can bind Monoclonal Anti-Human GPA33 Antibody, Human IgG1 with a linear range of 0.3-5 ng/mL (QC tested).

## 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.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.