Biotinylated Human GPA33 Protein, His Tag, ultra sensitivity (primary amine labeling)

Catalog # GP3-H8224

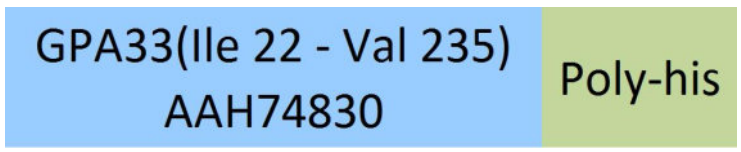
Synonym

GPA33,A33

Source

MABSol® Biotinylated Human GPA33, His Tag, primary amine labeling (GP3-H8224) is expressed from human HEK293 cells. It contains AA Ile 22 - Val 235 (Accession # AAH74830). It is the biotinylated form of Human GPA33, His Tag (GP3-H5224).
Predicted N-terminus: Ile 22

Molecular Characterization



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 kDa and 38 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with biotins using standard chemical labeling method. A standard biotin reagent (13.5 angstroms) is used in this product.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>95% 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

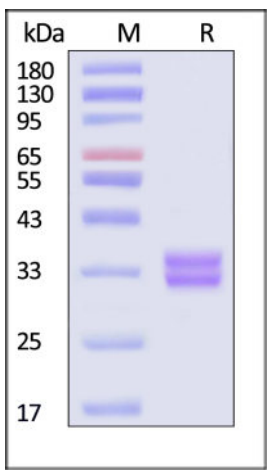
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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



Biotinylated Human GPA33, His Tag, primary amine labeling on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

Bioactivity-ELISA

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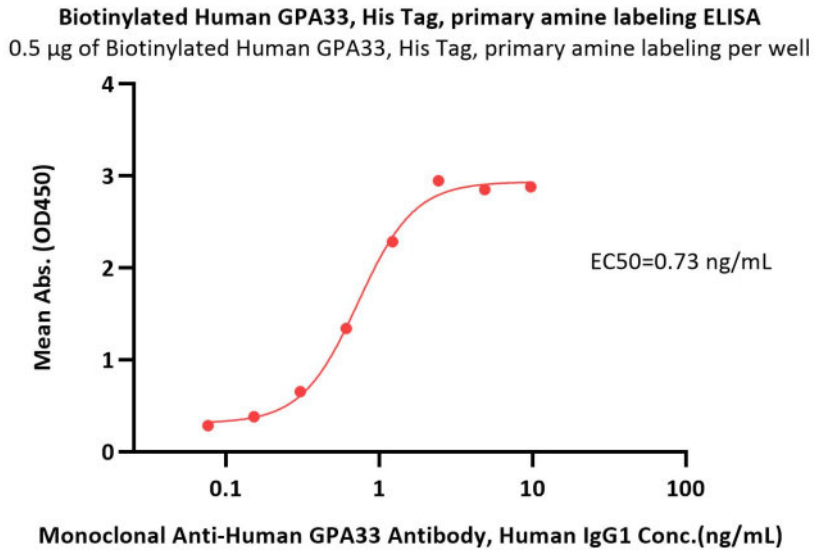

Immobilized Biotinylated Human GPA33, His Tag, primary amine labeling (Cat. No. GP3-H8224) at 5 μg/mL (100 μL/well) on streptavidin precoated (0.5 μg/well) plate, can bind Monoclonal Anti-Human GPA33 Antibody, Human IgG1 with a linear range of 0.3-1 ng/mL (QC tested).

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.

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