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Datasheet for ABIN2444135

## GPA33 Protein (AA 22-235) (His tag,Biotin)

### 2 Images

#### Overview

Quantity:	200 µg
Target:	GPA33
Protein Characteristics:	AA 22-235
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPA33 protein is labelled with His tag,Biotin.

#### Product Details

Brand:	MABSol@,UltraLys
Sequence:	AA 22-235
Specificity:	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.
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 24.5 kDa. The protein migrates as 35-40 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

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Target:	GPA33
Alternative Name:	GPA33 ( <a href="#">GPA33 Products</a> )
Background:	<p>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.</p>
Molecular Weight:	24.4 kDa

## Application Details

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Comment:	<p>A chemically labeled biotinylated protein with ultra sensitivity.</p> <p>The product is produced using a chemical labeling approach. The primary amines in the side chains of lysine residues and the N-terminus of protein are conjugated with biotins.</p> <p>Chemical labeling usually results in multiple biotin attachment on a single protein molecule, which could potentially lead to higher detection sensitivity.</p>
Restrictions:	For Research Use only

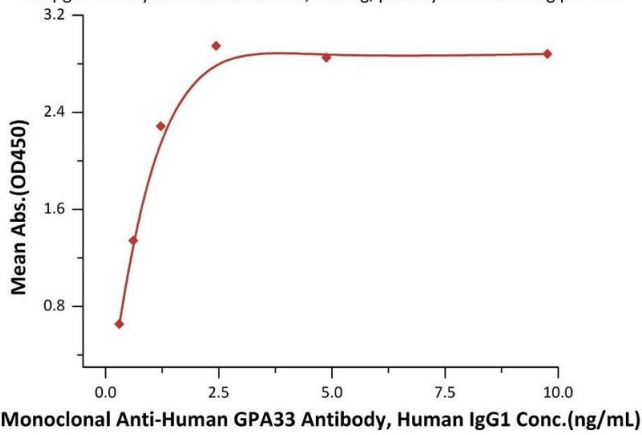
## Handling

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Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	Lyophilized Protein should be stored at -20 °C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20 °C or -70 °C. Avoid repeated freeze-thaw cycles.

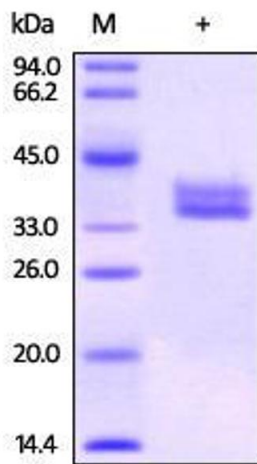
**Biotinylated Human GPA33, His Tag, primary amine labeling ELISA**

0.5 µg of Biotinylated Human GPA33, His Tag, primary amine labeling per well



**ELISA**

**Image 1.** Immobilized Biotinylated Human GPA33, His Tag, primary amine labeling (ABIN2444136, ABIN2444135) at 5 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate, can bind Monoclonal A GPA33 Antibody, Human IgG1 with a linear range of 0.3-1 ng/mL (QC tested).



**SDS-PAGE**

**Image 2.** Biotinylated Human GPA33 on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.