

Recombinant Human Glycophorin-A/GYPA/CD235a protein

Catalog No.: RP02835 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	2993	P02724-1

Tags

C-hFc

Synonyms

PAS-2; CD235a; GPA; GPERik; GpMIlll;
GPSAT; GYPA; HGpMIlll; HGpMiV;
HGpMiX; HGpMiXI; HGpSta(C); MNS;
CD235a; MN

Product Information

Source	Purification
HEK293 cells	> 95% as determined by HPLC

Endotoxin

<0.01EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Granulomatosis with polyangiitis (GPA) presents a wide spectrum of manifestations from the common respiratory symptoms to infrequent neurological and cardiac complications. The challenge in diagnosis and management makes the rapidly progressive disorder one of the most challenging dilemmas in clinical medicine. The ultimate goal is an improved prognosis through outcome measures which assesses the disease control with minimal adverse effects of intensive immunosuppressive regimens, an integral part of the clinical approach to improve the quality of life of GPA patients.

Basic Information

Description

Recombinant Human Glycophorin-A Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser20-Glu91) of human Glycophorin-A (Accession #NP_002090.4) fused with a hFc tag at the C-terminus.

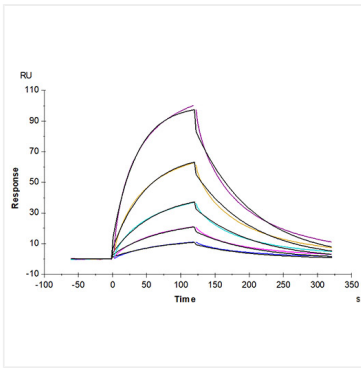
Bio-Activity

Anti-GPA Antibody immobilized on CM5 Chip can bind Human GPA, hFc Tag with an affinity constant of 0.72 μM as determined in SPR assay (Biacore T200).

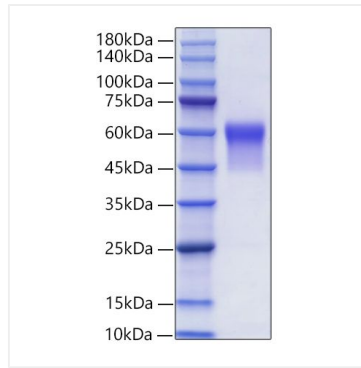
Storage

Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

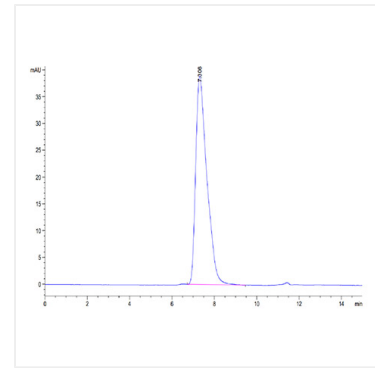
Validation Data



Anti-GPA Antibody immobilized on CM5 Chip can bind Human GPA, hFc Tag with an affinity constant of $0.72 \mu\text{M}$ as determined in SPR assay (Biacore T200).



Recombinant Human Glycophorin-A/GYPA/CD235a protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 45-65kDa.



The purity of Human Glycophorin-A is greater than 95% as determined by SEC-HPLC.