

Synonym

GPC3,OCI5,Glypican-3,GTR2-2,MXR7,DGSX,SDYS ,SGB,SGBS,SGBS1

Source

Alexa Fluor 488-Labeled Human Glypican 3 Protein, His Tag (GP3-HA2H5) is produced via conjugation of AF488 to Human Glypican 3 Protein, His Tag with a new generation site-specific technology under Star Staining labeling platform.

Human Glypican 3 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Gln 25 - His 559 (Accession # [P51654-1](#)).

Predicted N-terminus: Gln 25

Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 77.6 kDa.

Conjugate

AF488

Excitation Wavelength: 488 nm

Emission Wavelength: 517 nm

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% 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.

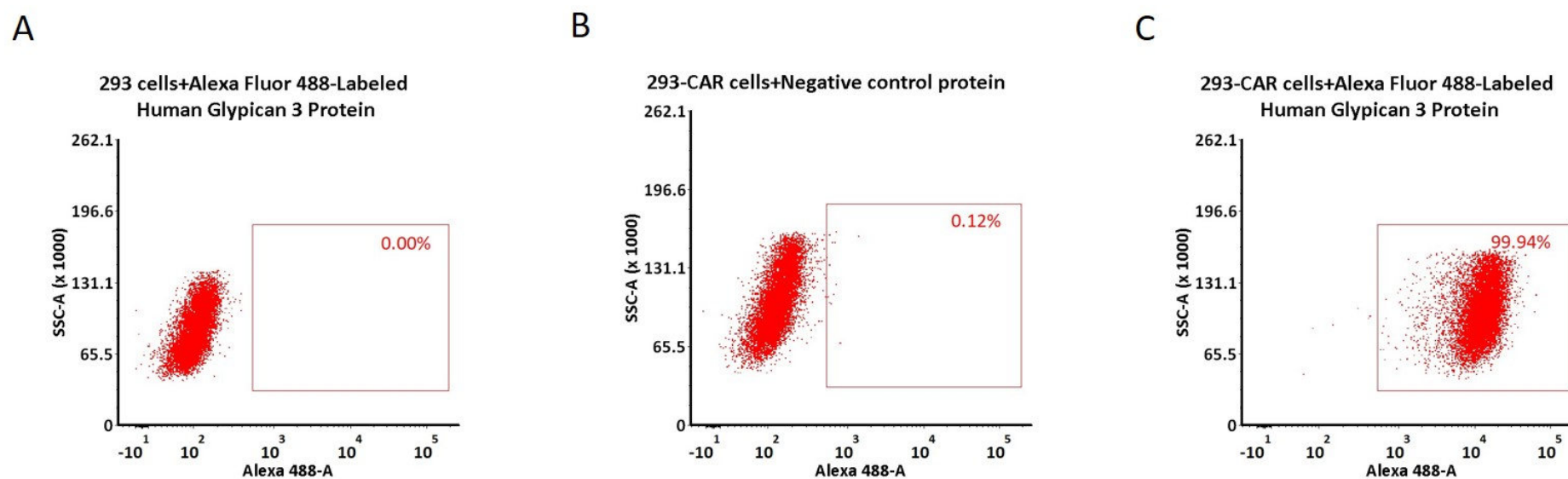
Please protect from light and avoid repeated freeze-thaw cycles.

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.

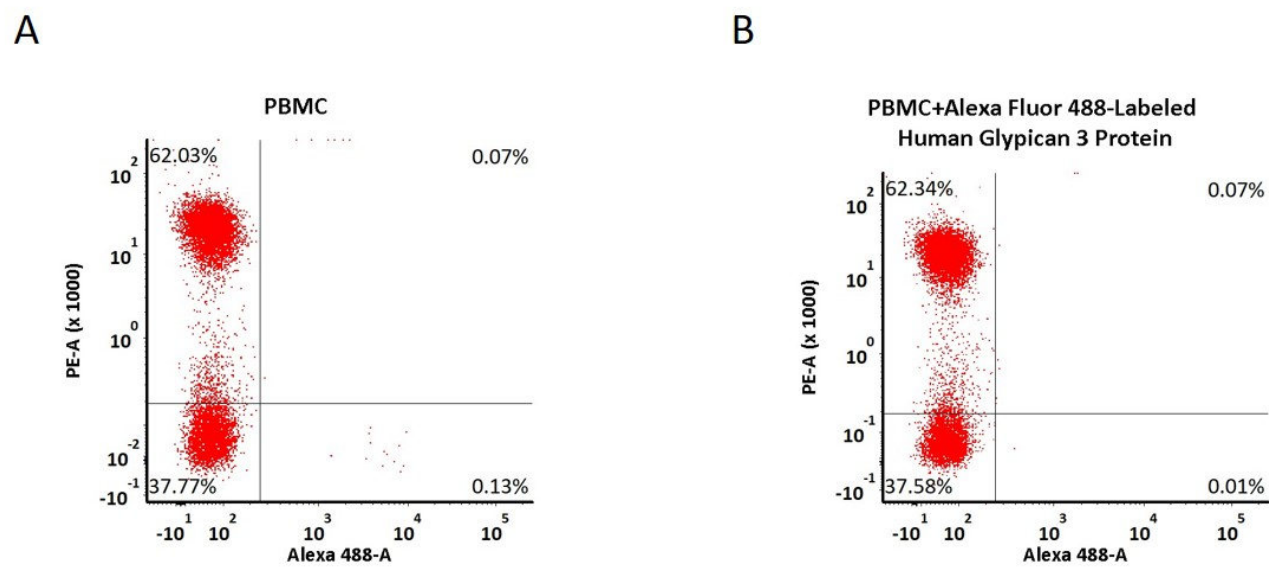
Evaluation of CAR expression

FACS Analysis of Anti-Glypican 3 CAR Expression



5e5 of anti-GPC3 CAR-293 cells were stained with 100 µL of 3 µg/mL of Alexa Fluor 488-Labeled Human Glypican 3 Protein, His Tag (Cat. No. GP3-HA2H5) and negative control protein respectively (Fig. C and B), and non-transfected 293 cells were used as a control (Fig. A). Alexa Fluor 488 signal was used to evaluate the binding activity (QC tested).

FACS Analysis of Non-specific binding to PBMCs



5e5 of PBMCs were stained with Alexa Fluor 488-Labeled Human Glypican 3 Protein, His Tag (Cat. No. GP3-HA2H5) and anti-CD3 antibody, washed and then analyzed with FACS. PE signal was used to evaluate the expression of CD3+ T cells in PBMCs, and Alexa Fluor 488 signal was used to evaluate the non-specific binding activity to PBMCs (QC tested).

Background

Glypican-3 (GPC3) is also known as Intestinal protein OCI-5, GTR2-2, MXR7, which belongs to the glypican family. Glypican 3 / GPC-3 is highly expressed in lung, liver and kidney. Glypican-3 inhibits the dipeptidyl peptidase activity of DPP4. Glypican-3 may be involved in the suppression/modulation of growth in the predominantly mesodermal tissues and organs, and also may play a role in the modulation of IGF2 interactions with its receptor and thereby modulate its function.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.