



Synonyms

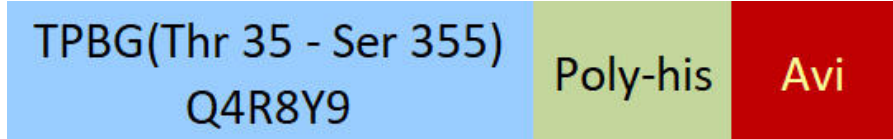
TPBG, 5T4, M6P1, 5T4AG, WAIF1, 5T4 oncofetal antigen, Trophoblast glycoprotein, 5T4 oncofetal trophoblast glycoprotein

Source

Biotinylated Cynomolgus / Rhesus macaque TPBG Protein, His,Avitag (TPG-C82E3) is expressed from human 293 cells (HEK293). It contains AA Thr 35 - Ser 355 (Accession # [Q4R8Y9](#)). In the region Thr 35 - Ser 355, the amino acid sequences of Cynomolgus and Rhesus macaque TPBG are identical.

Predicted N-terminus: Thr 35

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 38.4 kDa. The protein migrates as 53-65 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avi tag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the SABA assay / HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC 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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

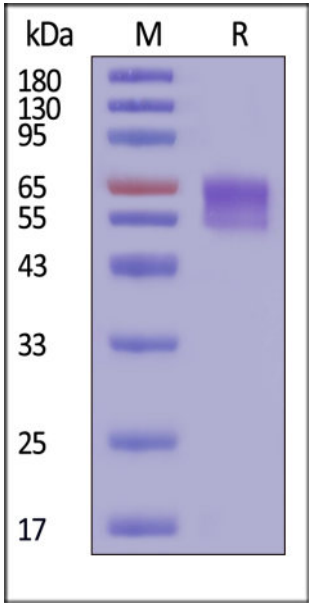
This product is stable after storage at:

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

ACRO Quality Management System

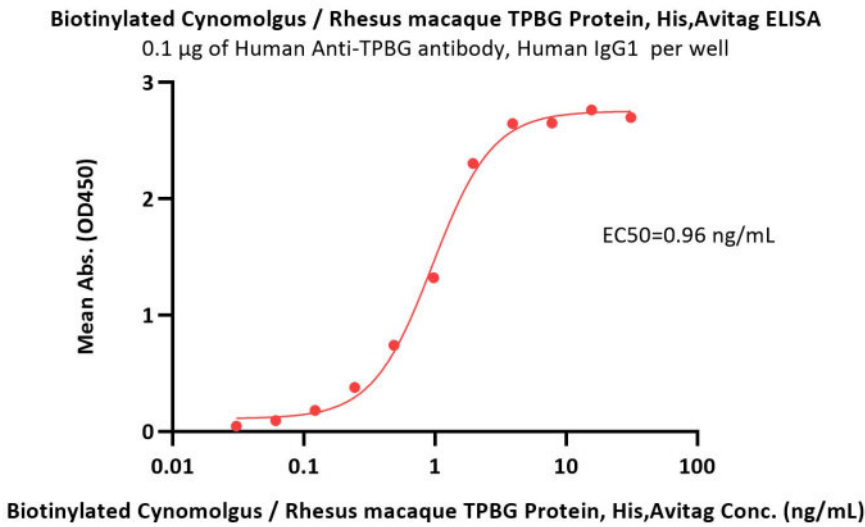
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Biotinylated Cynomolgus / Rhesus macaque TPBG Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA



Immobilized Human Anti-TPBG antibody, Human IgG1 at 1 µg/mL (100 µL/well) can bind Biotinylated Cynomolgus / Rhesus macaque TPBG Protein, His,Avitag (Cat. No. TPG-C82E3) with a linear range of 0.03-2 ng/mL (QC tested).

Background

Trophoblast glycoprotein (TPBG), also known as 5T4, is the therapeutic target of several anticancer agents currently in clinical development, largely due to its high expression in tumors and low expression in normal adult tissues.This gene encodes a leucine-rich transmembrane glycoprotein that may be involved in cell adhesion. TPBG is expressed by all types of trophoblasts as early as 9 weeks of development.



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