

Human TPBG/5T4 Protein

Cat. No. 5T4-HM201



Description

Source	Recombinant Human TPBG/5T4 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Ser32-Ser355.
Accession	Q13641
Molecular Weight	The protein has a predicted MW of 62.08 kDa. Due to glycosylation, the protein migrates to 75-105 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

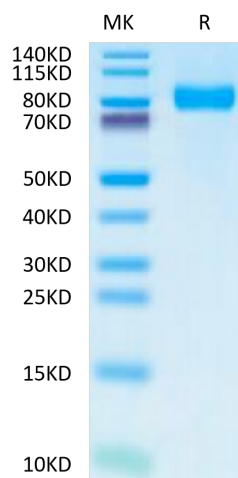
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The oncofetal tumor-associated antigen 5T4 (TBGP) has been linked with CSC properties in several different malignancies. 5T4 has functional attributes that are relevant to the spread of tumors including through EMT, CXCR4/CXCL12, Wnt, and Hippo pathways which may all contribute through the mobilization of CSCs.

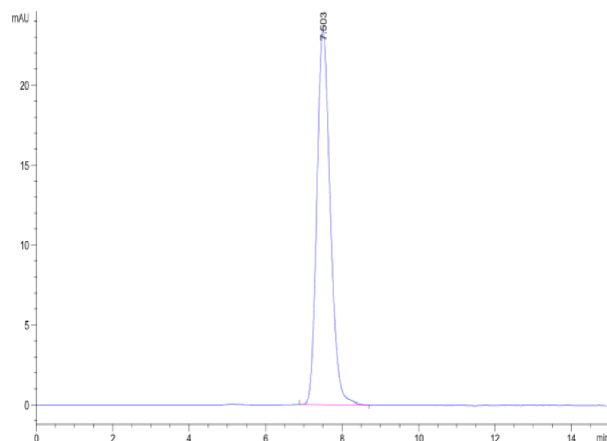
Assay Data

Tris-Bis PAGE



Human TPBG on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

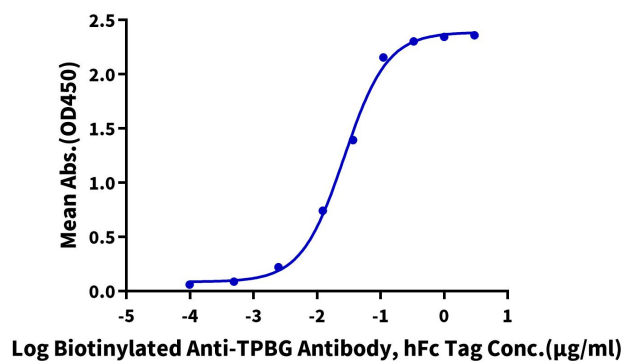


The purity of Human TPBG is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human TPBG, hFc Tag ELISA
0.05µg Human TPBG, hFc Tag Per Well



Immobilized Human TPBG, hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-TPBG Antibody, hFc Tag with the EC50 of 26.8ng/ml determined by ELISA.