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 Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

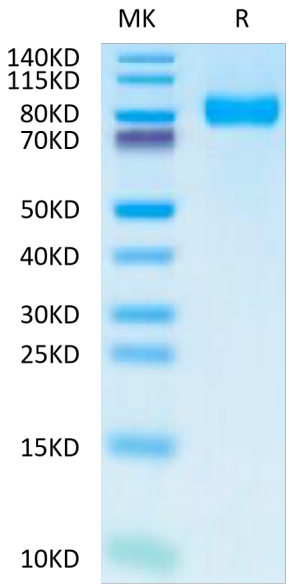
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months 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

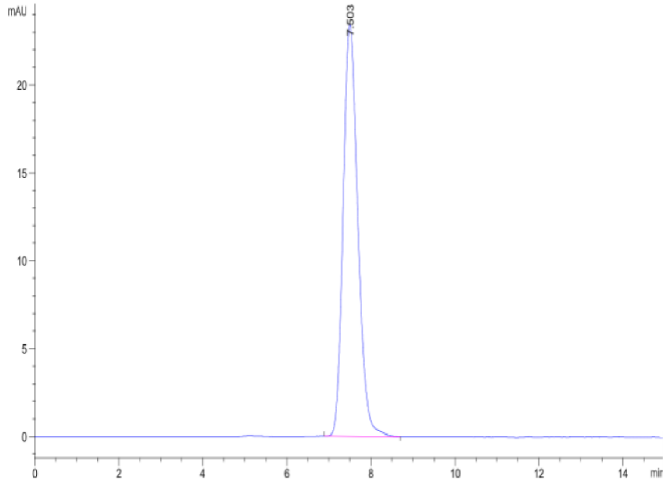
Bis-Tris PAGE



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

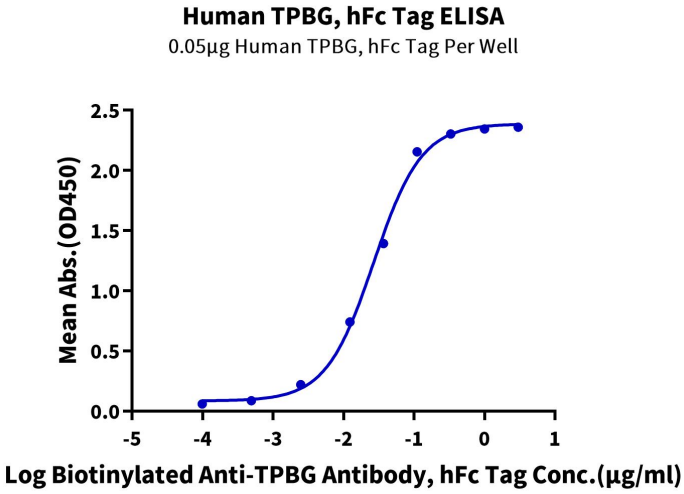
SEC-HPLC

Assay Data



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

ELISA Data



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.