

Datasheet for ABIN7273784

TPBG Protein (AA 32-355) (His-Avi Tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	TPBG
Protein Characteristics:	AA 32-355
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TPBG protein is labelled with His-Avi Tag.

Product Details

Purpose:	Human TPBG/5T4 Protein
Sequence:	Ser32-Ser355
Characteristics:	Recombinant Human TPBG/5T4 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ser32-Ser355.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human TPBG, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-TPBG Antibody, hFc Tag with the EC50 of 7.3ng/ml determined by ELISA. See testing image for detail.

Target Details

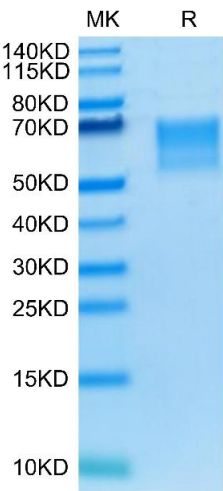
Target:	TPBG
Alternative Name:	TPBG (TPBG Products)
Background:	The oncofetal tumor-associated antigen 5T4 (TBGP) has been linked with CSC properties in several different malignancies. 5T4 has functional attributes that are relevant to the spread of tumors including through EMT, CXCR4/CXCL12, Wnt, and Hippo pathways which may all contribute through the mobilization of CSCs.
Molecular Weight:	38.2 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.

Application Details

Restrictions:	For Research Use only
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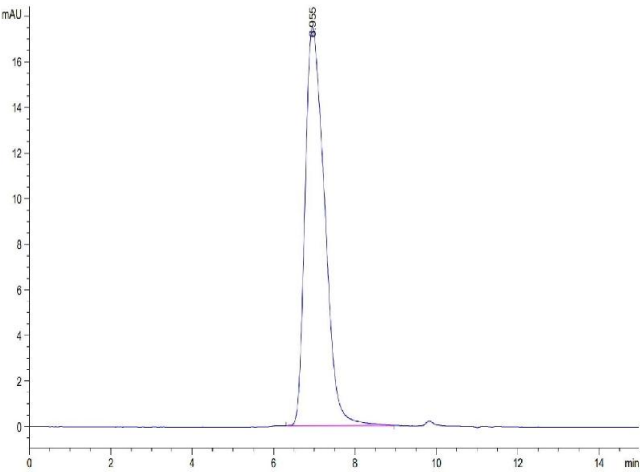
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months 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.
Expiry Date:	12 months



SDS-PAGE

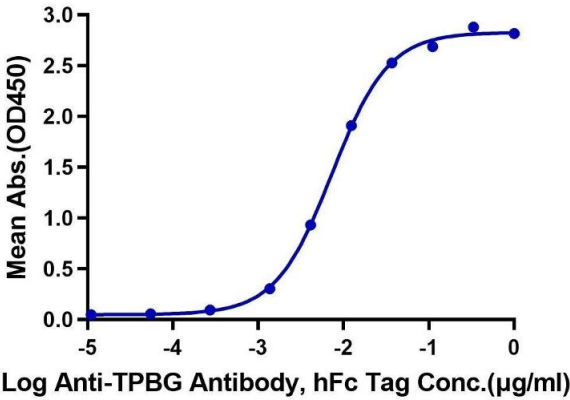
Image 1. Human TPBG/5T4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human TPBG/5T4 is greater than 95 % as determined by SEC-HPLC.

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



ELISA

Image 3. Immobilized Human TPBG, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-TPBG Antibody, hFc Tag with the EC50 of 7.3 ng/mL determined by ELISA.