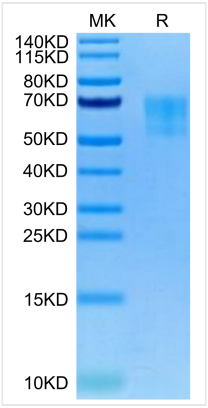
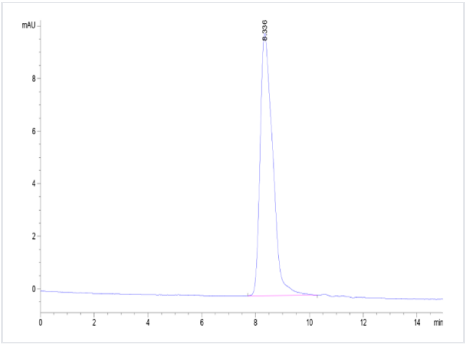
TPBG/5T4 Biotinylated Human Recombinant Protein

PRODUCT OVERVIEW

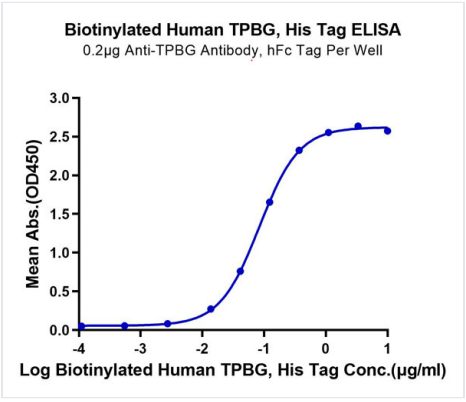
Product Name	TPBG/5T4, Recombinant Protein
Full Product Name	Biotinylated Human TPBG/5T4 Protein Recombinant
Product Gene Name	TPBG/5T4 recombinant protein
Host	HEK293 cells (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.)
Form/Format	Recombinant Human TPBG/5T4 was lyophilized from 0.2 um filtered PBS solution pH7.4
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Preparation and Storage	The lyophilized protein is stable for at least 2 years from date of receipt at-20 degree C
Molecular Weight	46,032 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (83072923..83077134). Location: 6q14-q15
OMIM	190920
3D Structure	ModBase 3D Structure for Q13641
Source	DNA sequence encoding Human TPBG/5T4 including a C-His-Avi tag was expressed in HEK293 Cells.The recombinant protein was then biotinylated site specific using the AVItag biotinylation technology.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Reconstitution	Centrifuge vial to ensure maximal product extraction, recommended: 20sec, 5K RPM
Product Categories/Family for TPBG/5T4 recombinant protein	Biotinylated proteins
Related Product Information for TPBG/5T4 recombinant protein	MBS553862 is a recombinant protein targeting TPBG/5T4. Also known as Biotinylated Human TPBG/5T4 Protein Recombinant. Host: HEK293 cells (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.).
Other Notes	Small volumes of TPBG/5T4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Tris-Bis-Page of TPBG/5T4 recombinant protein
Biotinylated Human TPBG/5T4 Protein Tris-Bis PAGEBiotinylated Human TPBG on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



Testing Data of TPBG/5T4 recombinant protein
Biotinylated Human TPBG/5T4 Protein SEC-HPLCThe purity of Biotinylated Human TPBG is greater than 95% as determined by SEC-HPLC.



ELISA (EIA) of TPBG/5T4 recombinant protein
Biotinylated Human TPBG/5T4 Protein ELISA DataImmobilized Anti-TPBG Antibody, hFc Tag at 2?g/ml (100?l/well) on the plate. Dose response curve for Biotinylated Human TPBG, His Tag with the EC50 of 84.3ng/ml determined by ELISA.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TPBG/5T4. It may not necessarily be applicable to this product.

NCBI GI #	262205665
NCBI GeneID	7162
NCBI Accession #	NP_001159864.1
UniProt Primary Accession #	Q13641
UniProt Related Accession #	Q13641
GenBank Nucleotide #	NM_001166392.1
NCBI Official Full Name	trophoblast glycoprotein
NCBI Official Synonym Full Names	trophoblast glycoprotein
NCBI Official Symbol	TPBG
NCBI Official Synonym Symbols	5T4; M6P1; 5T4AG
UniProt Protein Name	Trophoblast glycoprotein
UniProt Synonym Protein Names	5T4 oncofetal antigen; 5T4 oncofetal trophoblast glycoprotein; 5T4 oncotrophoblast glycoprotein; M6P1
UniProt Gene Name	TPBG
UniProt Synonym Gene Names	5T4; 5T4 oncotrophoblast glycoprotein

UniProt Entry Name	TPBG_HUMAN
NCBI Protein Information	trophoblast glycoprotein; 5T4 oncofetal antigen; 5T4 oncotrophoblast glycoprotein; 5T4 oncofetal trophoblast glycoprotein
NCBI Summary for TPBG/5T4	This gene encodes a leucine-rich transmembrane glycoprotein that may be involved in cell adhesion. The encoded protein is an oncofetal antigen that is specific to trophoblast cells. In adults this protein is highly expressed in many tumor cells and is associated with poor clinical outcome in numerous cancers. Alternate splicing in the 5' UTR results in multiple transcript variants that encode the same protein. [provided by RefSeq, Oct 2009]
UniProt Comments for TPBG/5T4	Subcellular location: Membrane; Single-pass type I membrane protein Potential. Tissue specificity: Expressed by all types of trophoblasts as early as 9 weeks of development. Specific for trophoblastic cells except for amniotic epithelium. In adult tissues, the expression is limited to a few epithelial cell types but is found on a variety of carcinoma. Miscellaneous: Antigen 5T4 is overexpressed by a wide spectrum of cancers, including colorectal, ovarian and gastric, but with a limited normal tissue expression. Could be used for tumor immunotherapy. Sequence similarities: Contains 6 LRR (leucine-rich) repeats.Contains 1 LRRCT domain.Contains 1 LRRNT domain.
Research Articles on TPBG/5T4	**1.** 5T4 is a potential new antigen for targeted therapies such as immunotherapy in MPM, as it is overexpressed on mesothelioma cells and recognised by 5T4-specific cytotoxic T-cells.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/tpbg-5t4/553862