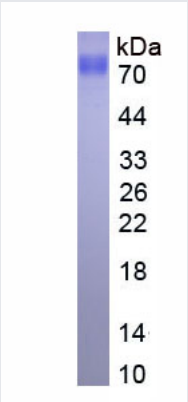
5T4 Active Protein

PRODUCT OVERVIEW

Product Name	5T4, Active Protein
Full Product Name	Active 5T4
Product Gene Name	5T4 active protein
Product Synonym Names	5T4; 5T4 active protein (eukaryotic, 293F Cell), Human; 5T4-AG; M6P1; WAIF1; 5T4 oncofetal trophoblast glycoprotein; Wnt-activated inhibitory factor 1; Trophoblast Glycoprotein
Host	293F Cell
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose. Freeze-dried powder
Purity/Purification	Greater than 90% by SDS-PAGE
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months Stable for 12 months if correctly stored.
Molecular Weight	46,032 Da
Sequence Positions	Ser32~Ser355
Chromosome Location	Chromosome: 6; NC_000006.11 (83072923..83077134). Location: 6q14-q15
OMIM	190920
3D Structure	ModBase 3D Structure for Q13641
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
Expression System	Eukaryotic expression
Species	Human
Tag	N-terminal His
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	5.8
Research Area	Tumor immunity
Product Categories/Family for 5T4 active protein	Active proteins
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for 5T4 active protein	Cell culture, Activity Assay
Related Product Information for 5T4 active protein	MBS2153302 is an active protein targeting 5T4. Also known as Active 5T4. Host: 293F Cell.
Other Notes	Small volumes of 5T4 active 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.



SDS-PAGE of 5T4 active protein
Figure. SDS-PAGE

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for 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
Protein Family	Trophoblast glycoprotein
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 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 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 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.
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