

Trophoblast glycoprotein (TPBG) Active Protein | TPBG active protein

Recombinant Human Trophoblast glycoprotein (TPBG), partial (Active)

CATALOG #
AAA279231

HOST
Mammalian Cell

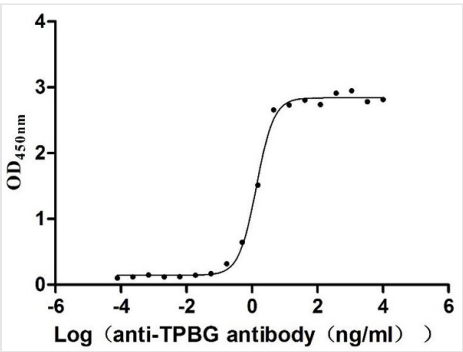
PRODUCT SYNONYMS

Trophoblast glycoprotein (TPBG); Recombinant Human Trophoblast glycoprotein (TPBG); partial (Active); 5T4 oncofetal antigen; 5T4 oncofetal trophoblast glycoprotein; 5T4 oncotrophoblast glycoprotein; M6P1; Wnt-activated inhibitory factor 1; WAIF1; TPBG active protein

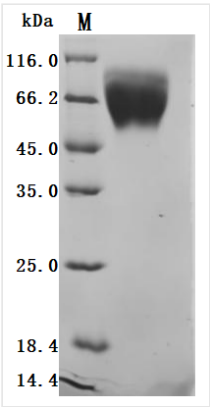
PRODUCT SPECIFICATIONS

Host	Mammalian Cell
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	Lyophilized powder Lyophilized from a 0.2 um filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Sequence Positions	32-355aa; Partial
Sequence	SSPTSSASSF SSSAPFLASA VSAQPPLPDQ CPALCECSEA ARTVKCVNRN LTEVPTDLPA YVRNLFITGN QLAVLPAGAF ARRPPLAELA ALNLSGSRLD EVRAGAFEHL PSLRQLDLSH NPLADLSPFA FSGSNASVSA PSPLVELILN HIVPPEDERQ NRSFEGMVVA ALLAGRALQG LRRLELASNH FLYLPRDVLA QLPSLRHLDL SNNSLVSLTY VSFRNLTHLE SLHLEDNALK VLNHGTAEEL QGLPHIRVFL DNNPWVCDCH MADMTWLKE TEVVQGDRL TCAYPEKMRN RVLLELNSAD LDCDILPPS LQTSS
Species	Homo sapiens (Human)
Tag	N-terminal 10xHis-tagged
Endotoxin	Less than 1.0 EU/ug as determined by LAL method.
Research Area	Cancer
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human TPBG at 2 ug/mL can bind Anti-TPBG recombinant antibody, the EC50 is 1.230-1.519 ng/mL.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

IMAGES



Bioactivity
Measured by its binding ability in a functional ELISA. Immobilized Human TPBG at 2 ?g/mL can bind Anti-TPBG recombinant antibody, the EC50 is 1.230-1.519 ng/mL.



SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Related Product Information for TPBG active protein	May function as an inhibitor of Wnt/beta-catenin signaling by indirectly interacting with LRP6 and blocking Wnt3a-dependent LRP6 internalization.
Product Categories/Family for TPBG active protein	Active Protein & In Stock Protein
References	May function as an inhibitor of Wnt/beta-catenin signaling by indirectly interacting with LRP6 and blocking Wnt3a-dependent LRP6 internalization.

NCBI AND UNIPROT INFORMATION

NCBI GI #	262205665
NCBI GeneID	7162
NCBI Accession #	NP_001159864.1
NCBI GenBank Nucleotide #	NM_001166392.1
UniProt Accession #	Q13641
Molecular Weight	46,032 Da
NCBI Official Full Name	trophoblast glycoprotein
NCBI Official Synonym Full Names	trophoblast glycoprotein
NCBI Official Symbol	TPBG
NCBI Official Synonym Symbols	5T4; M6P1; 5T4AG
NCBI Protein Information	trophoblast glycoprotein; 5T4 oncofetal antigen; 5T4 oncotrophoblast glycoprotein; 5T4 oncofetal trophoblast glycoprotein
UniProt Protein Name	Trophoblast glycoprotein
UniProt Gene Name	TPBG
UniProt Synonym Gene Names	5T4; 5T4 oncotrophoblast glycoprotein
UniProt Entry Name	TPBG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

