

Recombinant Rat Tpbg Protein, His-tagged

Cat. No. Tpbg-11162R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat TPBG Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Ser 32 - Ser 361 (Accession # Q5PQV5). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Ser 32
Species	Rat
Source	HEK293
ProteinLength	32-361 aa
Description	Trophoblast glycoprotein (TPBG), also known as 5T4, is the therapeutic target of several anticancer agents currently in clinical development, largely due to its high expression in tumors and low expression in normal adult tissues. This gene encodes a leucine-rich transmembrane glycoprotein that may be involved in cell adhesion. TPBG is expressed by all types of trophoblasts as early as 9 weeks of development.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Molecular Mass	The protein has a calculated MW of 37.7 kDa. The protein migrates as 50-70 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.

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Storage This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name Tpbg trophoblast glycoprotein [Rattus norvegicus]

Official Symbol TPBG

Synonyms TPBG; trophoblast glycoprotein; 5T4 oncotrophoblast glycoprotein; 5T4 oncofetal trophoblast glycoprotein; 5T4; MGC93332;

Gene ID 83684

mRNA Refseq NM_031807

Protein Refseq NP_113995

UniProt ID Q5PQV5

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