

TPBG/5T4 Protein, Human, Recombinant (His & Avi), FITC-Labeled

General Information

Synonyms:	WAIF1;TPBG;5T4AG;5T4;M6P1
Protein Construction:	Ser32-Ser355
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q13641-1
Molecular Weight:	38.2 kDa (predicted). Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized FITC-Labeled 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 6.4 ng/mL determined by ELISA (QC Test).
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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.

Reference

Harrop R, et al. Cancer stem cell mobilization and therapeutic targeting of the 5T4 oncofetal antigen. *Ther Adv Vaccines Immunother.* 2019 Jan 25;7:2515135518821623. doi: 10.1177/2515135518821623. PMID: 30719508; PMCID: PMC6348545.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481