

HUMAN TPBG PROTEIN, HIS TAG

Cat.#: 11232

Product Name: Human TPBG Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: 5T4;5T4AG;M6P1;WAIF1

Target: 5T4

UNIPROT ID: Q13641

Description: Recombinant Human 5T4 Protein with C-terminal 6xHis tag

Background: 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.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 36.1 kDa after removal of the signal peptide. The apparent molecular mass of 5T4-His is approximately 55-70 kDa due to glycosylation.

Molecular Characterization: 5T4(Ser32-Ser355) 6xHis tag

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

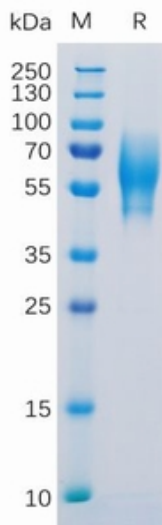


Figure 1. Human 5T4 Protein, His Tag on SDS-PAGE under reducing condition.

Human 5T4, His tagged protein ELISA
0.1 μg of Human 5T4, His tagged protein per well

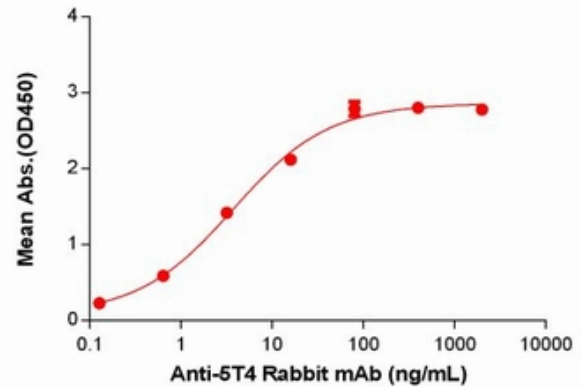


Figure 2. ELISA plate pre-coated by 1 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{well}$) Human 5T4 Protein, His Tag (11232) can bind Anti-5T4 Rabbit mAb in a linear range of 3.2-16 ng/mL .

Human 5T4, His Tagged protein ELISA
0.2 μg of Human 5T4, His tagged protein per well

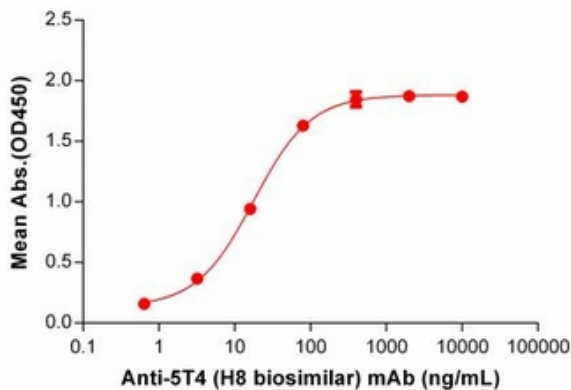


Figure 3. ELISA plate pre-coated by 2 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{well}$) Human 5T4 Protein, His Tag (11232) can bind Anti-5T4 (H8 biosimilar) mAb (28149) in a linear range of 0.64-16 ng/mL .

Human 5T4, His Tagged protein ELISA
0.2 μg of Human 5T4, His tagged protein per well

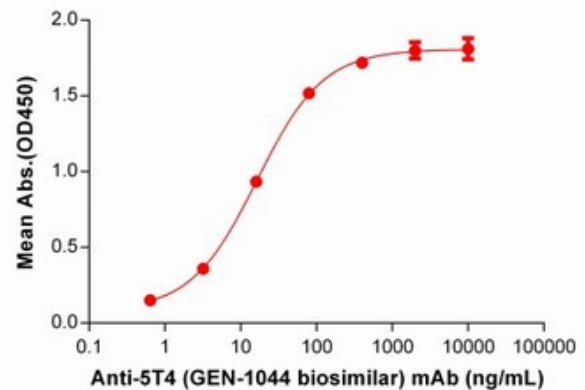


Figure 4. ELISA plate pre-coated by 2 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{well}$) Human 5T4 Protein, His Tag (11232) can bind Anti-5T4 (GEN-1044 biosimilar) mAb (28150) in a linear range of 0.64-16 ng/mL .