

TPBG/5T4 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P78053
Synonyms:	M6P1; 5T4AG; WAIF1; TPBG; 5T4
Species:	Human
Source:	HEK293
Accession:	Q13641 (S32-S355)
Gene ID:	7162
Molecular Weight:	50-70 kDa

PROPERTIES

Biological Activity	Immobilized Anti-TPBG Antibody, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human TPBG, His Tag with the EC ₅₀ of 43.3ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The TPBG/5T4 protein appears to serve as an inhibitor of Wnt/beta-catenin signaling, potentially achieved through indirect interaction with LRP6, thereby impeding Wnt3a-dependent LRP6 internalization. This implies a crucial role for TPBG/5T4 in modulating the intricate Wnt/beta-catenin signaling pathway, exerting regulatory influence on cellular responses associated with this pathway. Further exploration of the specific molecular mechanisms governing the interaction between TPBG/5T4 and LRP6, as well as its impact on Wnt3a-dependent LRP6 internalization, could yield valuable insights into the functional significance of TPBG/5T4 in shaping Wnt/beta-catenin signaling dynamics and its potential implications for various cellular processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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