

Human TPBG (Trophoblast glycoprotein) ELISA Kit | TPBG elisa kit

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CATALOG #
AAA250064

REACTIVITY
Human

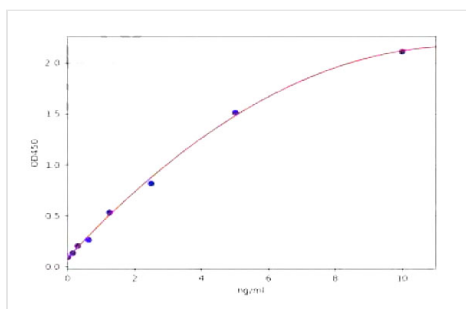
PRODUCT SYNONYMS

TPBG (Trophoblast glycoprotein); Human TPBG (Trophoblast glycoprotein) ELISA Kit; Trophoblast glycoprotein; 5T4 oncofetal antigen; 5T4 oncofetal trophoblast glycoprotein; 5T4 oncotrophoblast glycoprotein; M6P1; Wnt-activated inhibitory factor 1; WAIF1; 5T4; TPBG; TPBG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize TPBG, no obvious cross reaction with other analogues
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TPBG elisa kit	Background: Trophoblast glycoprotein (TPBG/5T4) is a type I transmembrane glycoprotein that is normally expressed by trophoblast cells of the placenta. Cell surface expression of TPBG plays a critical role in modulating signaling cascades that drive cell adhesion, morphology, and motility processes that are fundamental for normal progression of embryogenesis. TPBG is aberrantly overexpressed in numerous types of solid tumors and functions to promote enhanced tumor cell motility and metastasis. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti TPBG antibody was pre-coated onto the 96-well plate. The biotin conjugated anti TPBG antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with TPBG conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of TPBG in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/tpbg-trophoblast-glycoprotein/250064>