TPBG Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TPBG, Polyclonal Antibody
Full Product Name	TPBG Antibody
Product Gene Name	anti-TPBG antibody
Product Synonym Names	Trophoblast glycoprotein (5T4 oncofetal antigen)(5T4 oncofetal trophoblast glycoprotein)(5T4 oncotrophoblast glycoprotein)(M6P1)
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	This antibody detects endogenous levels of TPBG at Human, Mouse,Rat
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	46,032 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (83072923..83077134). Location: 6q14-q15
OMIM	190920
3D Structure	ModBase 3D Structure for Q13641
Immunogen	Synthesized peptide derived from human TPBG
Modification	Unmodified/Total
Product Categories/Family for anti-TPBG antibody	Primary Antibodies
Applications Tested/Suitable for anti-TPBG antibody	Western Blot (WB)
Application Notes for anti-TPBG antibody	WB: 1:500-2000
Related Product Information for anti-TPBG antibody	MBS9523298 is an antibody targeting TPBG. Also known as TPBG Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-TPBG antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TPBG. It may not necessarily be applicable to this product.

NCBI GI #	262205665
NCBI GeneID	7162
NCBI Accession #	NP_001159864.1
UniProt Primary Accession #	Q13641
UniProt Related Accession #	Q13641
GenBank Nucleotide #	NM_001166392.1
NCBI Official Full Name	trophoblast glycoprotein
NCBI Official Synonym Full Names	trophoblast glycoprotein
NCBI Official Symbol	TPBG
NCBI Official Synonym Symbols	5T4; M6P1; 5T4AG
UniProt Protein Name	Trophoblast glycoprotein
UniProt Synonym Protein Names	5T4 oncofetal antigen; 5T4 oncofetal trophoblast glycoprotein; 5T4 oncotrophoblast glycoprotein; M6P1
Protein Family	Trophoblast glycoprotein
UniProt Gene Name	TPBG
UniProt Synonym Gene Names	5T4; 5T4 oncotrophoblast glycoprotein
UniProt Entry Name	TPBG_HUMAN
NCBI Protein Information	trophoblast glycoprotein; 5T4 oncofetal antigen; 5T4 oncotrophoblast glycoprotein; 5T4 oncofetal trophoblast glycoprotein
NCBI Summary for TPBG	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. [provided by RefSeq, Oct 2009]
UniProt Comments for TPBG	Subcellular location: Membrane; Single-pass type I membrane protein Potential. Tissue specificity: Expressed by all types of trophoblasts as early as 9 weeks of development. Specific for trophoblastic cells except for amniotic epithelium. In adult tissues, the expression is limited to a few epithelial cell types but is found on a variety of carcinoma. Miscellaneous: Antigen 5T4 is overexpressed by a wide spectrum of cancers, including colorectal, ovarian and gastric, but with a limited normal tissue expression. Could be used for tumor immunotherapy. Sequence similarities: Contains 6 LRR (leucine-rich) repeats.Contains 1 LRRCT domain.Contains 1 LRRNT domain.
Research Articles on TPBG	**1.** 5T4 is a potential new antigen for targeted therapies such as immunotherapy in MPM, as it is overexpressed on mesothelioma cells and recognised by 5T4-specific cytotoxic T-cells.
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