

### KD-Validated Anti-Trophoblast Glycoprotein Rabbit Monoclonal Antibody

Rabbit monoclonal antibody Catalog # AGI1751

#### Specification

# KD-Validated Anti-Trophoblast Glycoprotein Rabbit Monoclonal Antibody - Product Information

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Application	WB, FC, ICC
Primary Accession	<u>Q13641</u>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 46 kDa , o bserved , 72 kDa
	KDa
Gene Name	TPBG
Aliases	TPBG; Trophoblast Glycoprotein; 5T4; 5T4
	Oncofetal Trophoblast Glycoprotein;
	Wnt-Activated Inhibitory Factor 1; 5T4
	Oncotrophoblast Glycoprotein; 5T4
	Oncofetal Antigen; 5T4-AG; WAIF1; M6P1;
	5T4AG
Immunogen	A synthesized peptide derived from human 5T4

## KD-Validated Anti-Trophoblast Glycoprotein Rabbit Monoclonal Antibody - Additional Information

Gene ID 7162 Other Names Trophoblast glycoprotein, 5T4 oncofetal antigen, 5T4 oncofetal trophoblast glycoprotein, 5T4 oncotrophoblast glycoprotein, M6P1, Wnt-activated inhibitory factor 1, WAIF1, TPBG, 5T4

## KD-Validated Anti-Trophoblast Glycoprotein Rabbit Monoclonal Antibody - Protein Information

Name TPBG

Synonyms 5T4

Function

May function as an inhibitor of Wnt/beta-catenin signaling by indirectly interacting with LRP6 and blocking Wnt3a-dependent LRP6 internalization.

**Cellular Location** Cell membrane; Single-pass type I membrane protein

Tissue Location

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

#### KD-Validated Anti-Trophoblast Glycoprotein Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

KD-Validated Anti-Trophoblast Glycoprotein Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Trophoblast glycoprotein antibody (Cat#AGI1751). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Trophoblast glycoprotein antibody (Cat#AGI1751, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-trophoblast glycoprotein antibody (Cat#AGI1751). Trophoblast glycoprotein expression in wild-type (WT) and trophoblast glycoprotein (TPBG) shRNA knockdown (KD) HT-1080 cells with 20  $\mu$ g of total cell lysates. Hsp90  $\alpha$  serves as a loading control. The blot was incubated with anti-trophoblast glycoprotein antibody (Cat#AGI1751, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.





Flow cytometric analysis of Trophoblast glycoprotein expression in HAP-1 cells using anti-Trophoblast glycoprotein antibody (Cat #AGI1751, 1:2,000). Green, isotype control; red, Trophoblast glycoprotein.



Immunocytochemical staining of HAP-1 with anti-trophoblast glycoprotein antibody (Cat#AGI1751, 1:1,000). Nuclei were stained blue with DAPI; Trophoblast glycoprotein was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.