

Product Name: KD-Validated Trophoblast Glycoprotein Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00850

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 46.0kDa

Antigen Information

Gene Name	TPBG TPBG; Trophoblast Glycoprotein; 5T4; 5T4 Oncofetal Trophoblast Glycoprotein; Wnt-
Alternative Names	Activated Inhibitory Factor 1; 5T4 Oncotrophoblast Glycoprotein; 5T4 Oncofetal Antigen; 5T4-AG; WAIF1; M6P1; 5T4AG
Gene ID	7162.0
SwissProt ID	Q13641
Immunogen	A synthesized peptide derived from human 5T4

Background

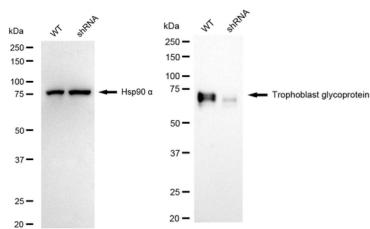
This gene encodes a leucine-rich transmembrane glycoprotein that may be involved in cell adhesion. The encoded protein is an

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. [provided by RefSeq, Oct 2009]

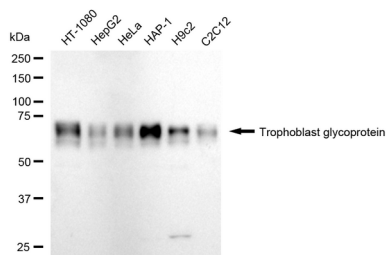
Research Area

Stem Cells,Cancer,Developmental Biology

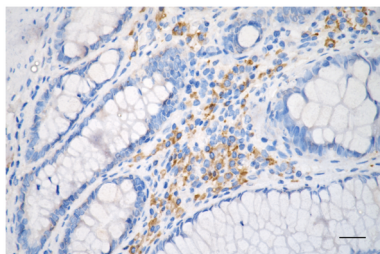
Image Data



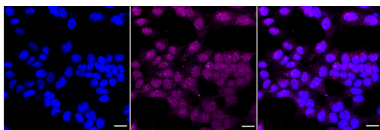
Western blotting analysis using trophoblast glycoprotein antibody (KVA00850). Trophoblast glycoprotein expression in wild-type (WT) and trophoblast glycoprotein (TPBG) shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with trophoblast glycoprotein antibody (KVA00850, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



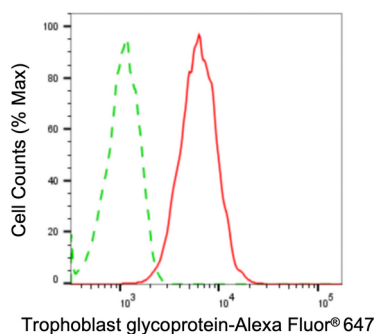
Western blotting analysis using Trophoblast glycoprotein antibody (KVA00850). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Trophoblast glycoprotein antibody (KVA00850, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using trophoblast glycoprotein antibody (KVA00850, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HAP-1 cells with trophoblast glycoprotein antibody (KVA00850, 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.



Flow cytometric analysis of trophoblast glycoprotein expression in HAP-1 cells using trophoblast glycoprotein antibody (KVA00850, 1:2,000). Green, isotype control; red, trophoblast glycoprotein.

