

Human TPBG Knockdown Cell Line (WB-Validated)



Catalog #: C62762

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

Background

Gene Name: TPBG
NCBI Gene Entry: [7162](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human TPBG Knockdown Cell Line (Wb-Validated)
2. Wild-type cell line

Parental Cell Line

Human cell line supplied by the client

Validation Methods

RT-qPCR, Western blotting (WB)

Shipping

Shipped on Dry Ice.

Instructions For Use

This knockdown cell line should be paired with wild-type cell line for use.

Note: This product is for research use only.

Validation Data

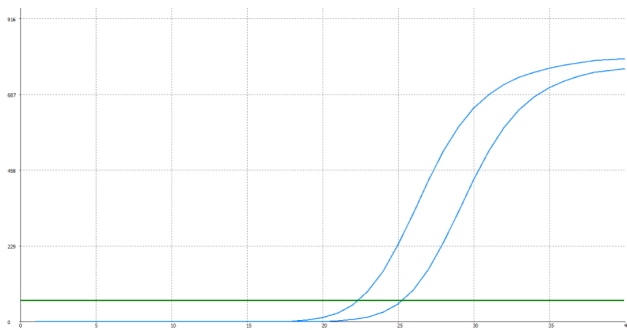
SUPPORT

SUPPORT@GENUINBIOTECH.COM
TEL: +1-540-855-7041

ORDERS

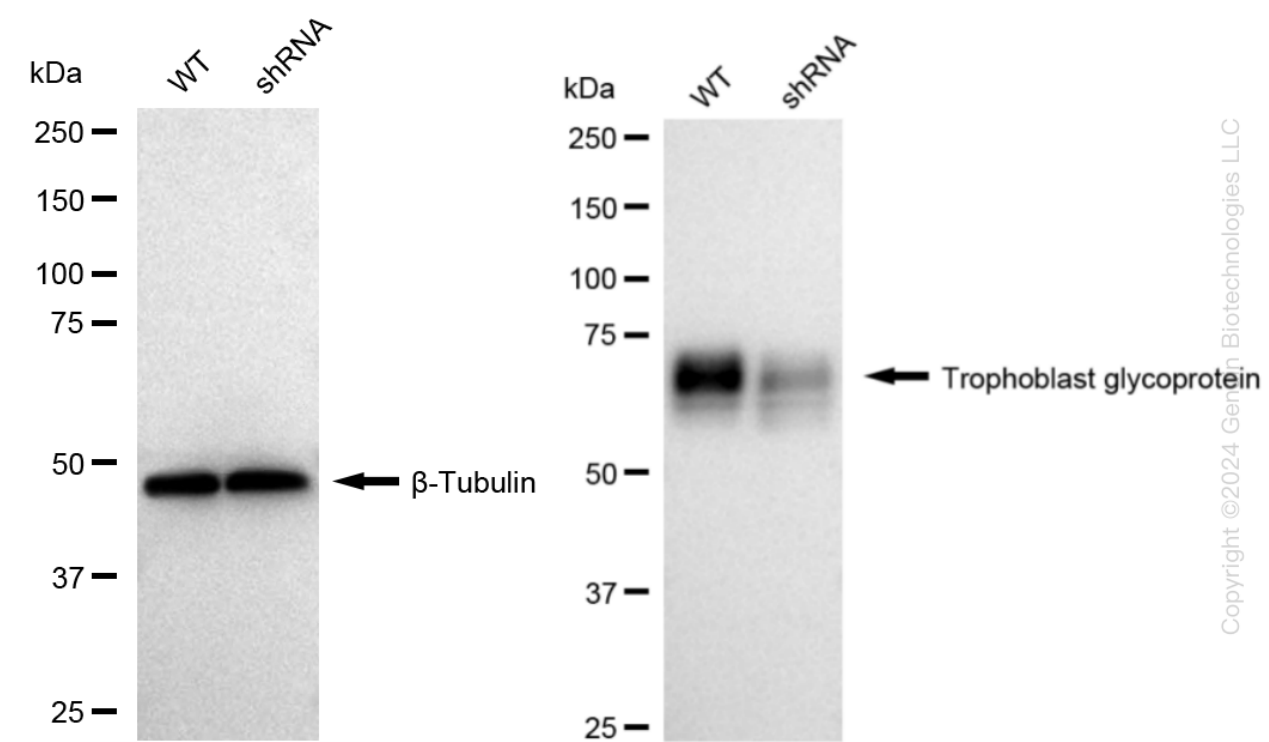
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Genotype	Ct Value
Wild-Type	22.13
Knock-Down	24.99
$\Delta\text{Ct} (\text{Ct}_{\text{KD}} - \text{Ct}_{\text{WT}})$	2.86
% mRNA Reduction	↓ 86%

RT-qPCR analysis. HT-1080 cells were infected with TPBG-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. $\Delta\text{Ct} (\text{Ct}_{\text{KD}} - \text{Ct}_{\text{WT}})$ was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1 - 1/2^{\Delta\text{Ct}}) \times 100\%$.



Western blotting analysis. TPBG protein expression in wild-type (WT) and shRNA knockdown (KD) HT-1080 cells was detected using Western blotting. β -Tubulin served as a loading control. The blots were incubated with primary antibodies against TPBG and β -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.