Human GOT1 Knockdown Cell Line (WB-Validated)

Catalog #: C62017

Aliases

GOT1; Glutamic-Oxaloacetic Transaminase 1; Glutamate Oxaloacetate Transaminase 1; AST1; SGOT; AST; Glutamic-Oxaloacetic Transaminase 1, Soluble; Aspartate Aminotransferase, Cytoplasmic; Cysteine Aminotransferase, Cytoplasmic; Cysteine Transaminase, Cytoplasmic; Aspartate Aminotransferase 1; Aspartate Transaminase 1; Transaminase A; EC 2.6.1.1; CAspAT; CCAT; Glutamic-Oxaloacetic Transaminase 1, Soluble (Aspartate Aminotransferase 1); Testis Secretory Sperm-Binding Protein Li 196a; Growth-Inhibiting Protein 18; EC 2.6.1.3; ASTQTL1; GIG18

Background

Gene Name: GOT1
NCBI Gene Entry: 2805

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human GOT1 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.

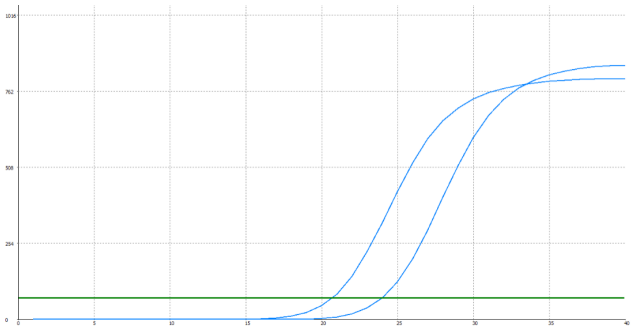
Instructions For Use

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

Note: This product is for research use only.

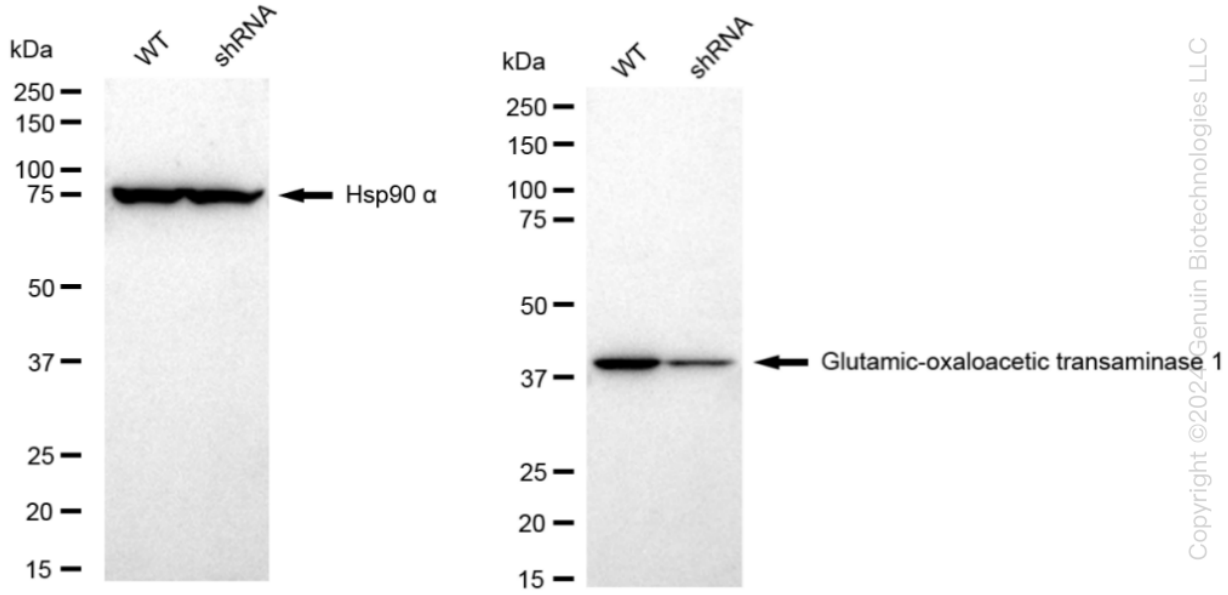
Validation Data

Human GOT1 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	20.29
Knock-Down	23.65
ΔCt (Ct_{KD}-Ct_{WT})	3.36
% mRNA Reduction	⬇ 90%

RT-qPCR analysis. HeLa cells were infected with GOT1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: (1-1/2ΔCt) x 100%.



Western blotting analysis. GOT1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies against GOT1 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.