Human DDR2 Knockdown Cell Line (WB-Validated)

Catalog #: C61314

Aliases

DDR2; Discoidin Domain Receptor Tyrosine Kinase 2; TKT; NTRKR3; TYRO10; Discoidin Domain-Containing Receptor Tyrosine Kinase 2; Discoidin Domain Receptor Family, Member 2; Discoidin Domain-Containing Receptor 2; Receptor Protein-Tyrosine Kinase TKT; CD167 Antigen-Like Family Member B; Tyrosine-Protein Kinase TYRO10; Discoidin Domain Receptor 2; EC 2.7.10.1; Neurotrophic Tyrosine Kinase, Receptor-Related; Neurotrophic Tyrosine Kinase Receptor Related 3; Cell Migration-Inducing Protein 20; Migration-Inducing Gene 16 Protein; Hydroxyaryl-Protein Kinase; CD167b Antigen; EC 2.7.10; MIG20a; WRCN

Background

Gene Name: DDR2
NCBI Gene Entry: 4921

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human DDR2 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.

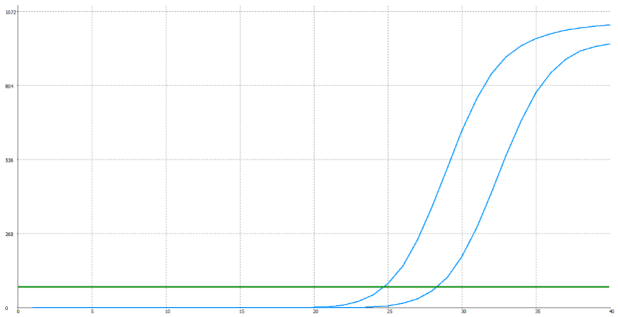
Instructions For Use

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

Note: This product is for research use only.

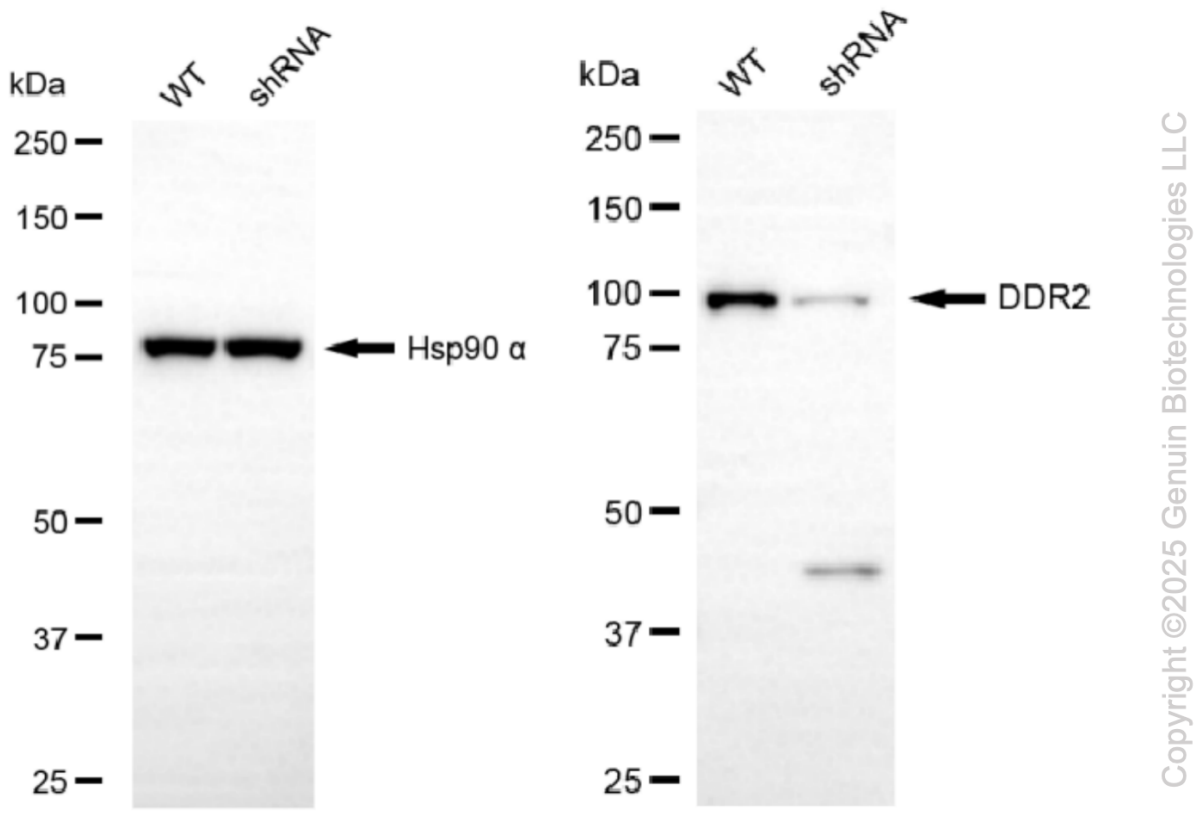
Validation Data

Human DDR2 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	24.66
Knock-Down	28.14
ΔCt (Ct_{KD}-Ct_{WT})	3.48
% mRNA Reduction	⬇ 91%

RT-qPCR analysis. HeLa cells were infected with DDR2-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.DDR2 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 DDR2 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using NaQ™ ECL Substrate Kit.