Human AKR1C1 Knockdown Cell Line (WB-Validated)

Catalog #: C61575

Aliases

AKR1C1; Aldo-Keto Reductase Family 1 Member C1; DDH; DD1; HAKRC; MBAB; DDH1; Dihydrodiol Dehydrogenase 1; 20-Alpha (3-Alpha)-Hydroxysteroid Dehydrogenase; High-Affinity Hepatic Bile Acid-Binding Protein; Chlordecone Reductase Homolog HAKRC; Dihydrodiol Dehydrogenase 1; HBAB; Aldo-Keto Reductase Family 1, Member C1 (Dihydrodiol Dehydrogenase 1; 20-Alpha (3-Alpha)-Hydroxysteroid Dehydrogenase); Trans-1,2-Dihydrobenzene-1,2-Diol Dehydrogenase; Type II 3-Alpha-Hydroxysteroid Dehydrogenase; 20 Alpha-Hydroxysteroid Dehydrogenase; 20-Alpha-Hydroxysteroid Dehydrogenase; Hepatic Dihydrodiol Dehydrogenase; Dihydrodiol Dehydrogenase 1/2; Aldo-Keto Reductase C; Indanol Dehydrogenase; 20-ALPHA-HSD; 20-Alpha-HSD; EC 1.1.1.112; EC 1.1.1.209; EC 1.1.1.210; EC 1.1.1.357; EC 1.1.1.149; 2-ALPHA-HSD; EC 1.1.1.51; EC 1.1.1.53; EC 1.1.1.62; EC 1.3.1.20; EC 1.1.1.-; EC 1.1.1; DD1/DD2; H-37; C9

Background

Gene Name: AKR1C1
NCBI Gene Entry: 1645

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human AKR1C1 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.

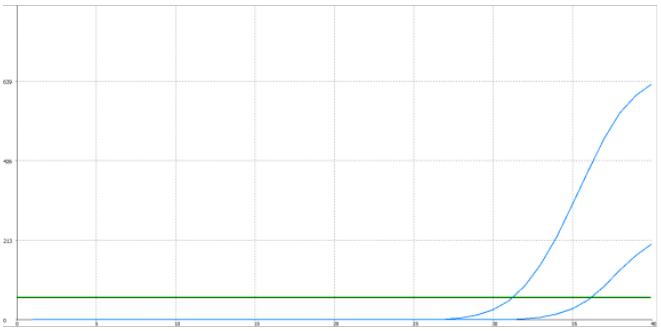
Instructions For Use

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

Human AKR1C1 Knockdown Cell Line (WB-Validated)

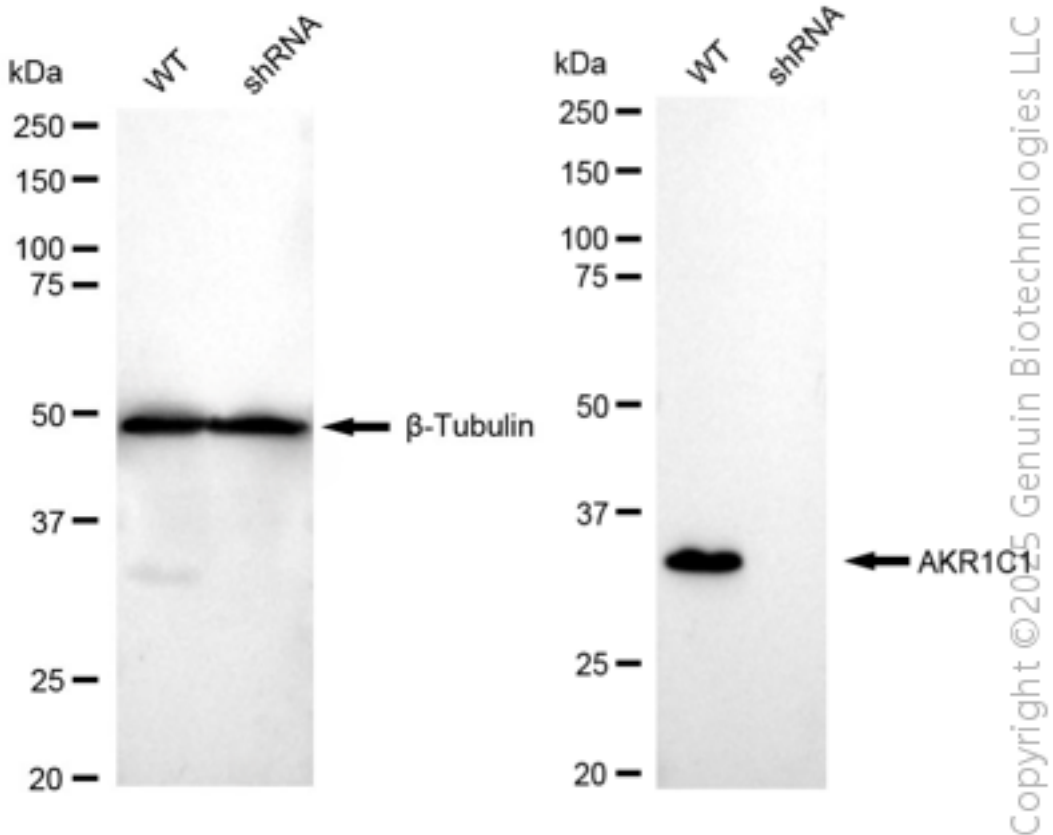
Note: This product is for research use only.

Validation Data



Genotype	Ct Value
Wild-Type	30.71
Knock-Down	33.89
ΔCt (CtKD-CtWT)	3.18
% mRNA Reduction	89%

RT-qPCR analysis. HeLa cells were infected with AKR1C1-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. AKR1C1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β-Tubulin served as a loading control. The blots were incubated with primary antibodies against AKR1C1 and β-Tubulin, respectively,

followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.