Human AKR1A1 Knockdown Cell Line (WB-Validated)



Catalog #: C63498

Aliases

AKR1A1; Aldo-Keto Reductase Family 1 Member A1; ALR; Aldehyde Reductase; DD3; Dihydrodiol Dehydrogenase 3; Glucuronolactone Reductase; Glucuronate Reductase; EC 1.1.1.2; ALDR1; Aldo-Keto Reductase Family 1, Member A1 (Aldehyde Reductase); Epididymis Secretory Sperm Binding Protein Li 165mP; Epididymis Secretory Protein Li 6; Alcohol Dehydrogenase [NADP(+)]; Alcohol Dehydrogenase; EC 1.1.1.372; HEL-S-165mP; EC 1.1.1.54; EC 1.1.1.19; EC 1.1.1.20; EC 1.1.1; HEL-S-6; ARM; ScorR; EC 1.6.-.-

Background

Gene Name: AKR1A1 NCBI Gene Entry: 10327

Storage

Store at liquid nitrogen for 1 year.

Kit Components

- 1. Human AKR1A1 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.

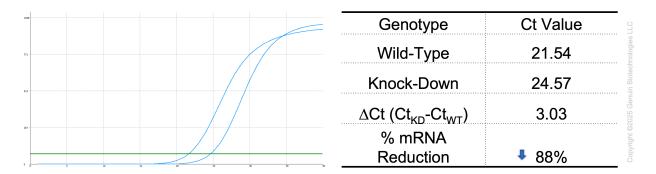
Instructions For Use

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

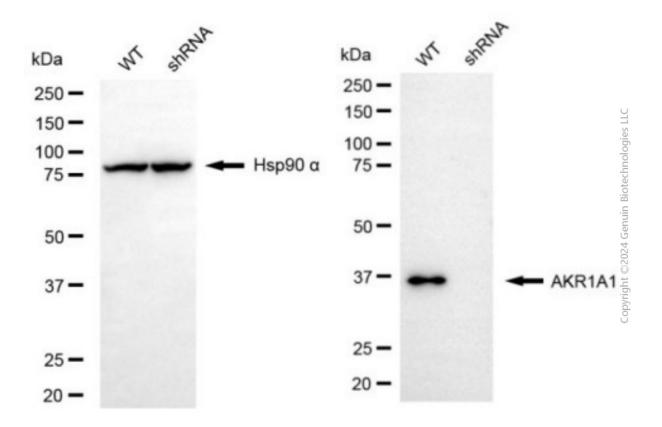
Note: This product is for research use only.

Validation Data

Human AKR1A1 Knockdown Cell Line (WB-Validated)



RT-qPCR analysis. HeLa cells were infected with AKR1A1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. Δ Ct (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1-1/2\Delta$ Ct) x 100%.



Western blotting analysis. AKR1A1 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 AKR1A1 and Hsp90 α , respectively, followed by incubating with HRP-conjugated goat anti-mouse secondary antibody. Images were developed using FeQTM ECL Substrate Kit.