

Human AKR1C2 Knockdown Cell Line (WB-Validated)



Catalog #: C67575

Aliases

AKR1C2; Aldo-Keto Reductase Family 1 Member C2; DD2; HAKRD; MCDR2; BABP; DDH2; DD; Dihydrodiol Dehydrogenase 2; Bile Acid Binding Protein; 3-Alpha Hydroxysteroid Dehydrogenase, Type III; Testicular 17,20-Desmolase Deficiency; Chlordecone Reductase Homolog HAKRD; 3-Alpha-HSD3; DD/BABP; DD-2; TDD; Aldo-Keto Reductase Family 1, Member C2 (Dihydrodiol Dehydrogenase 2; Bile Acid Binding Protein; 3-Alpha Hydroxysteroid Dehydrogenase, Type III) ; Dihydrodiol Dehydrogenase/Bile Acid-Binding Protein; Trans-1,2-Dihydrobenzene-1,2-Diol Dehydrogenase; Type III 3-Alpha-Hydroxysteroid Dehydrogenase; Type II Dihydrodiol Dehydrogenase; Pseudo-Chlordecone Reductase; Dihydrodiol Dehydrogenase 2; AKR1C-Pseudo; EC 1.1.1.112; EC 1.1.1.209; EC 1.1.1.357; EC 1.1.1.53; EC 1.1.1.62; EC 1.3.1.20; EC 1.-.-.-; EC 1.1.1; SRXY8; HBAB

Background

Gene Name: AKR1C2

NCBI Gene Entry: [1646](#)

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human AKR1C2 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.

SUPPORT

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

ORDERS

SALES@GENUINBIOTECH.COM
FAX: +1-540-855-7041

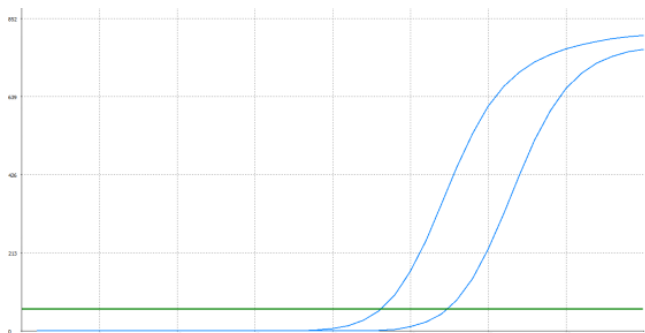
WWW.GENUINBIOTECH.COM

Human AKR1C2 Knockdown Cell Line (WB-Validated)

PAGE 2

Note: This product is for research use only.

Validation Data



Genotype	Ct Value
Wild-Type	23.04
Knock-Down	27.21
Δ Ct (CtKD-CtWT)	4.17
% mRNA Reduction	94%

Copyright ©2025 Genuin Biotechnologies LLC

RT-qPCR analysis. HeLa cells were infected with AKR1C2-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: $(1-1/2^{\Delta\text{Ct}}) \times 100\%$.

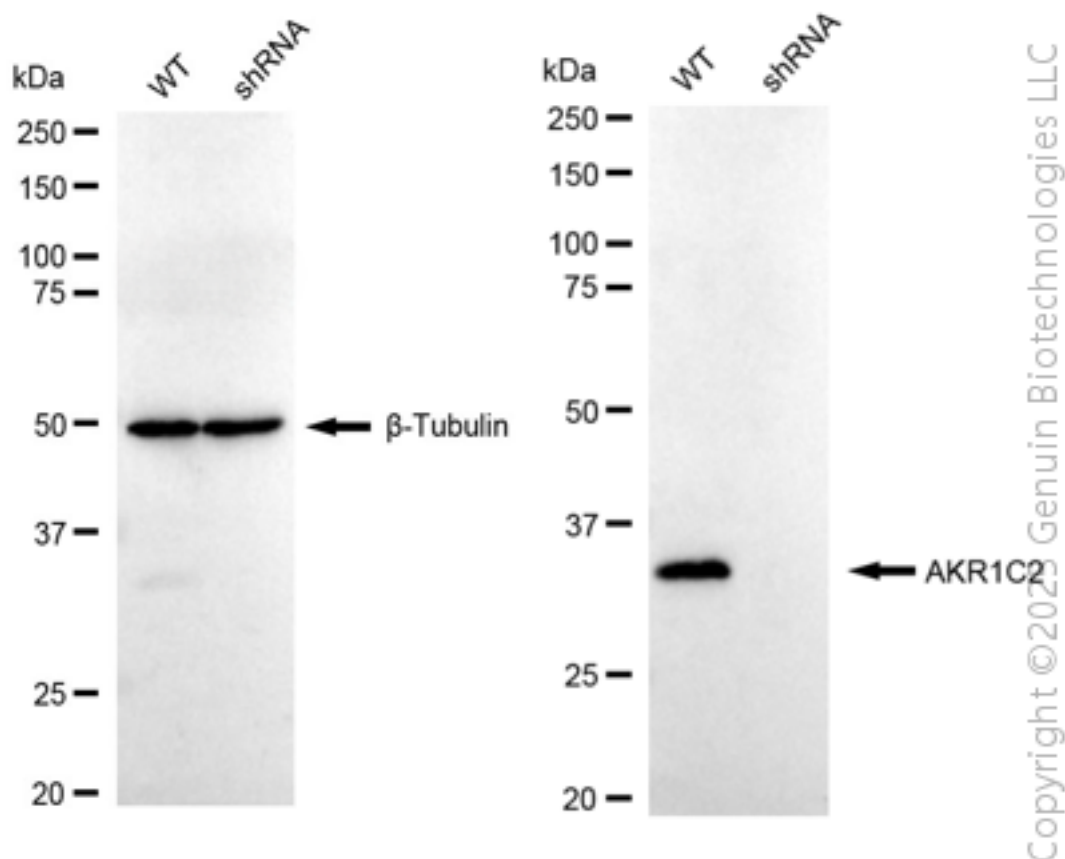
SUPPORT

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

ORDERS

SALES@GENUINBIOTECH.COM
FAX: +1-540-855-7041

WWW.GENUINBIOTECH.COM



Western blotting analysis. AKR1C2 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 AKR1C2 and β -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.