Human AP2S1 Knockdown Cell Line (WB-Validated)

Catalog #: C61452

Aliases

AP2S1; Adaptor Related Protein Complex 2 Subunit Sigma 1; CLAPS2; FBH3; Adaptor Related Protein Complex 2 Sigma 1 Subunit; Clathrin Assembly Protein 2 Sigma Small Chain; Plasma Membrane Adaptor AP-2 17 KDa Protein; Adaptor Protein Complex AP-2 Subunit Sigma; Clathrin Coat-Associated Protein AP17; Clathrin Coat Assembly Protein AP17; AP-2 Complex Subunit Sigma; HA2 17 KDa Subunit; Sigma2-Adaptin; Sigma-2; FBHOk; AP17; HHC3; Clathrin-Associated/Assembly/Adaptor Protein, Small 2 (17kD); Adaptor-Related Protein Complex 2 Subunit Sigma; Hypocalciuric Hypercalcemia 3 (Oklahoma Type); FBHOK

Background

Gene Name: AP2S1
NCBI Gene Entry: 1175

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human AP2S1 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.

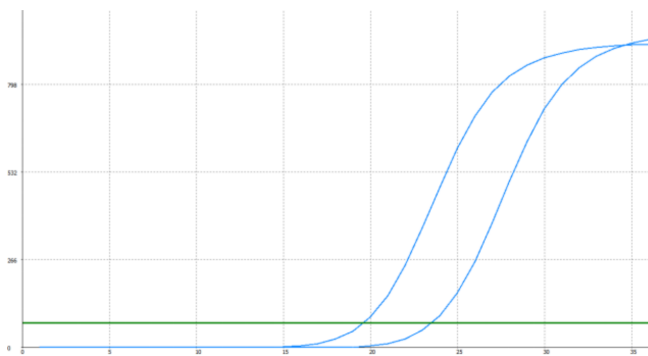**Note:** This product is for research use only.

Validation Data

Human AP2S1 Knockdown Cell Line (WB-Validated)

Genotype	Ct Value
Wild-Type	19.37
Knock-Down	23.34
$\Delta Ct\ (Ct_{KD}\text{-}Ct_{WT})$	3.97
% mRNA Reduction	⬇ 94 %

RT-qPCR analysis. HeLa cells were infected with AP2S1-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%.
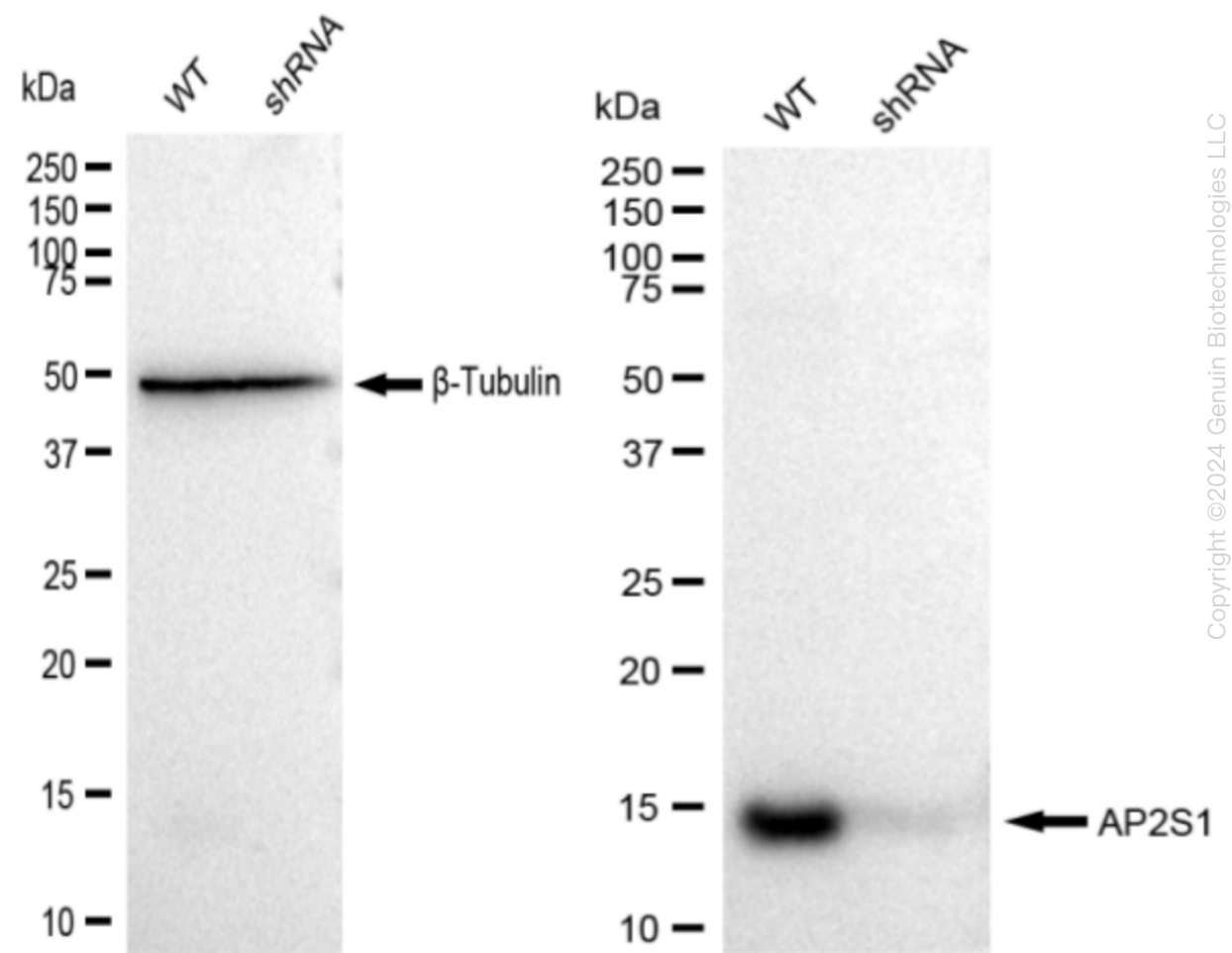
Western blotting analysis. AP2S1 protein expression in wild-type (WT) and shRNA knockdown

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Human AP2S1 Knockdown Cell Line (WB-Validated)

(KD) HeLa cells was detected using Western blotting. β-Tubulin α served as a loading control. The blots were incubated with primary antibodies (Cat#61329, 1:5,000) against AP2S1 and β-Tubulin , respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).