

# Human APLP2 Knockdown Cell Line (WB-Validated)



**Catalog #: C1662**

## Aliases

APLP2; Amyloid Beta Precursor Like Protein 2; APPH 2; Amyloid Beta (A4) Precursor-Like Protein 2; APPL2; Sperm Membrane Protein YWK-II; CDEI Box-Binding Protein; APLP-2; CDEBP; Amyloid Precursor Protein Homolog HSD-2; Testicular Tissue Protein Li 23; Amyloid Protein Homolog; Amyloid-Like Protein 2

## Background

Gene Name: APLP2

NCBI Gene Entry: [334](#)

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human APLP2 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

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### SUPPORT

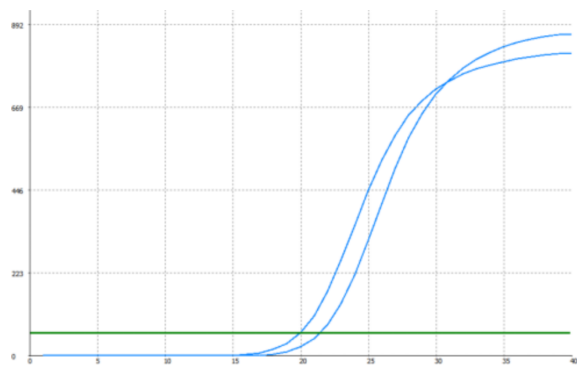
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Human APLP2 Knockdown Cell Line (WB-Validated)



| Genotype                                          | Ct Value                  |
|---------------------------------------------------|---------------------------|
| Wild-Type                                         | 19.86                     |
| Knock-Down                                        | 21.41                     |
| $\Delta$ Ct (Ct <sub>KD</sub> -Ct <sub>WT</sub> ) | 1.55                      |
| % mRNA Reduction                                  | <div><div></div>66%</div> |

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RT-qPCR analysis. HeLa cells were infected with APLP2-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers.  $\Delta$ Ct (Ct<sub>KD</sub>-Ct<sub>WT</sub>) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula:  $(1-1/2^{\Delta Ct}) \times 100\%$ .

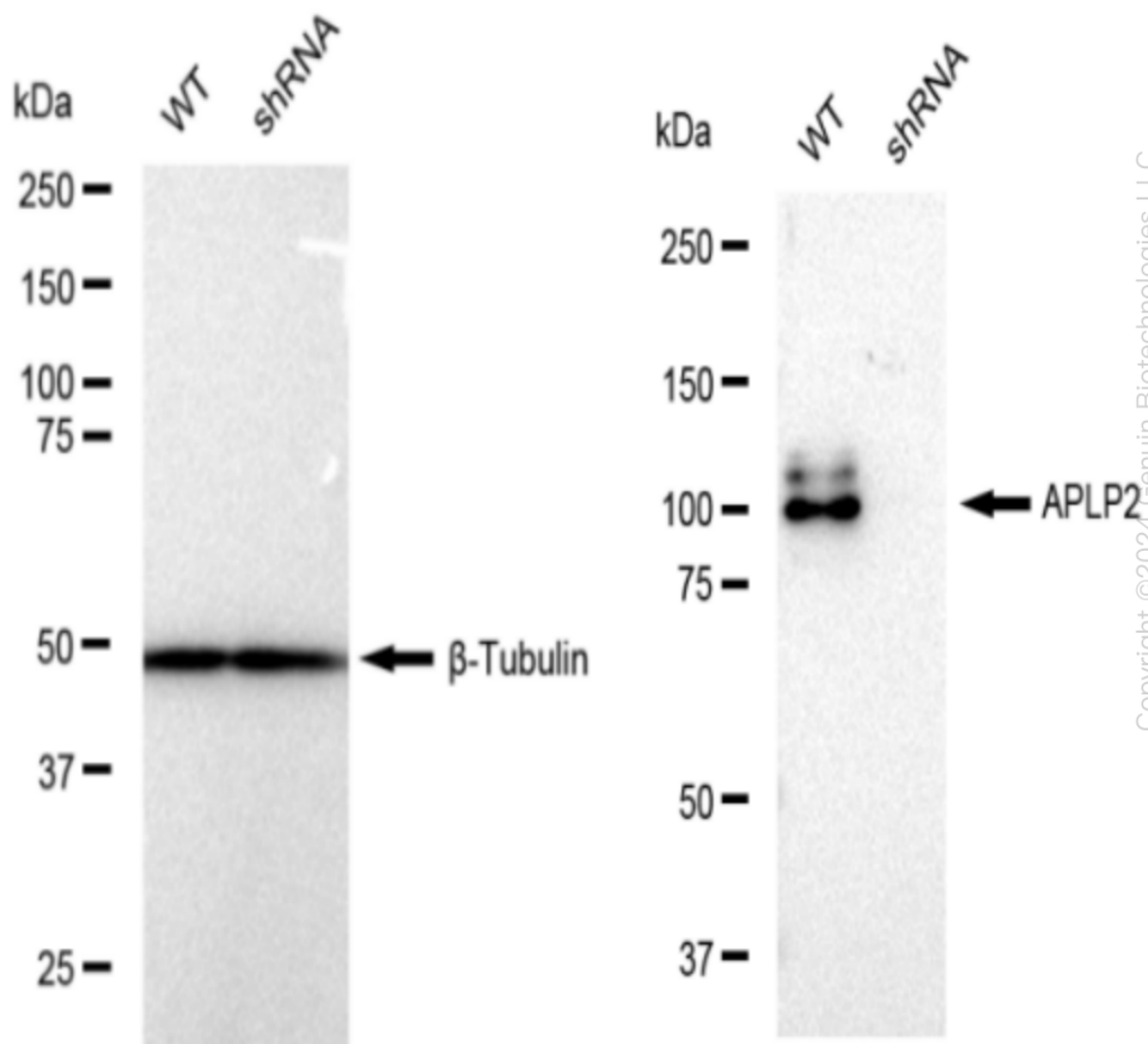
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Western blotting analysis. APLP2 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting.  $\beta$ -Tubulin served as a loading control. The blots were incubated with primary antibodies (Cat#61646, 1:5,000) against APLP2 and  $\beta$ -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).

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