# Human FASN Knockdown Cell Line (WB-Validated)

# Catalog #: C61976

## Aliases

FASN; Fatty Acid Synthase; FAS; SDR27X1; Short Chain Dehydrogenase/Reductase Family 27X, Member 1; 3-Hydroxyacyl-[Acyl-Carrier-Protein] DehydRatase; [Acyl-Carrier-Protein] S-Malonyltransferase; [Acyl-Carrier-Protein] S-Acetyltransferase; 3-Oxoacyl-[Acyl-Carrier-Protein] Reductase; 3-Oxoacyl-[Acyl-Carrier-Protein] Synthase; Enoyl-[Acyl-Carrier-Protein] Reductase; Acyl-[Acyl-Carrier-Protein] Hydrolase; Type I Fatty Acid Synthase; EC 2.3.1.85; EC 6.3.3.1; EC 2.3.1; OA-519

## Background

Gene Name: FASN
NCBI Gene Entry: 2194

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human FASN 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.

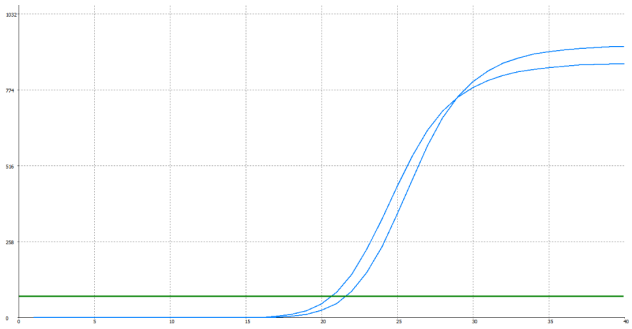
## Instructions For Use

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

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

### Validation Data

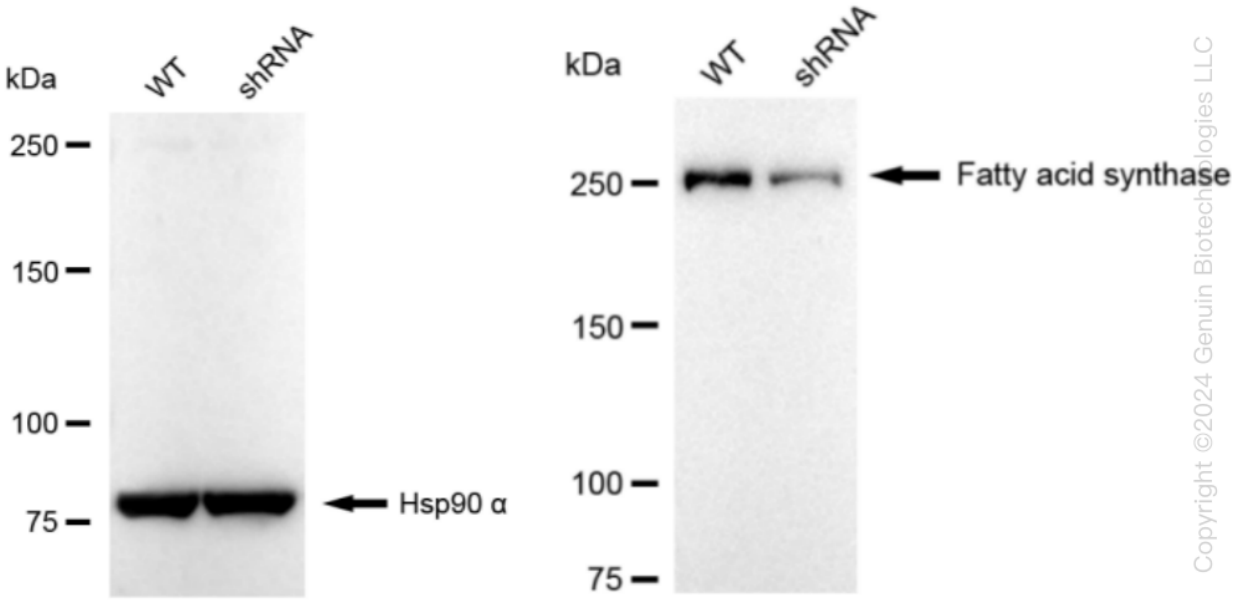
# Human FASN Knockdown Cell Line (WB-Validated)



| Genotype | Ct Value |
|---|---|
| Wild-Type | 20.36 |
| Knock-Down | 21.41 |
| ΔCt ($Ct_{KD}$-$Ct_{WT}$) | 1.05 |
| % mRNA Reduction | ⬇ 52% |



RT-qPCR analysis. HeLa cells were infected with FASN-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. FASN 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 FASN and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.