# Human EEF2K Knockdown Cell Line (WB-Validated)

# Catalog #: C3213

## Aliases

EEF2K; Eukaryotic Elongation Factor 2 Kinase; EEF-2K; CaMKIII; EEF-2 Kinase; EC 2.7.11.20; Calcium/Calmodulin-Dependent Eukaryotic Elongation Factor-2 Kinase; Calcium/Calmodulin-Dependent Eukaryotic Elongation Factor 2 Kinase; Calmodulin-Dependent Protein Kinase III; Eukaroytic Elongation Factor 2 Kinase; Elongation Factor-2 Kinase; Alternative Protein EEF2K; EC 2.7.11; HSU93850

## Background

Gene Name: EEF2K
NCBI Gene Entry: 29904

## Storage

Store at liquid nitrogen for 1 year.

## Kit Components

1. Human EEF2K 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.

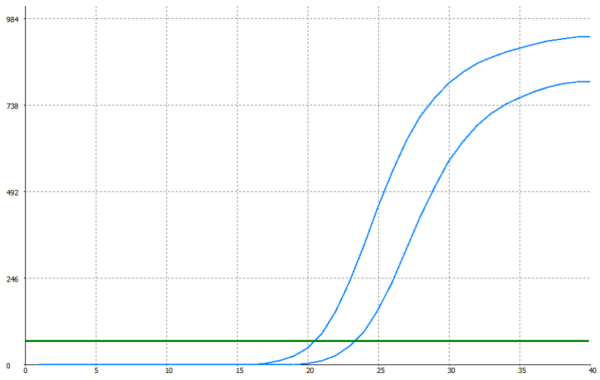
## Instructions For Use

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 EEF2K Knockdown Cell Line (WB-Validated)

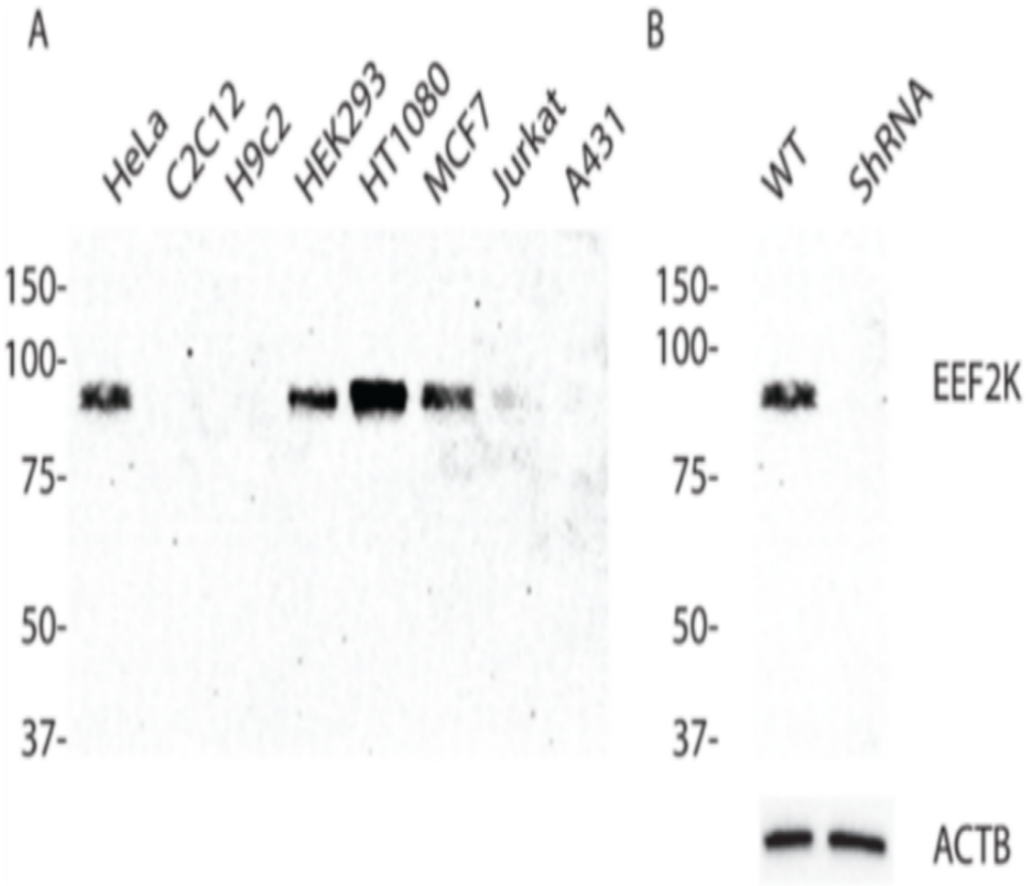



| Genotype | Ct Value |
|---|---|
| Wild-Type | 20.45 |
| Knock-Down | 23.11 |
| ΔCt ($Ct_{KD}$-$Ct_{WT}$) | 2.66 |
| % mRNA Reduction | ⬇ 84% |



RT-qPCR analysis. HeLa cells were infected with EEF2K-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%.

# Human EEF2K Knockdown Cell Line (WB-Validated)






Western blotting analysis. EEF2K protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. ACTB served as a loading control. The blots were incubated with primary antibodies (Cat#62828, 1:5,000) against EEF2K and ACTB, 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).