Human EHMT2 Knockdown Cell Line (WB-Validated)

Catalog #: C68352

Aliases

EHMT2; Euchromatic Histone Lysine Methyltransferase 2; KMT1C; G9A; C6orf30; BAT8; Euchromatic Histone-Lysine N-Methyltransferase 2; Histone-Lysine N-Methyltransferase EHMT2; Histone H3-K9 Methyltransferase 3; HLA-B Associated Transcript 8; Lysine N-Methyltransferase 1C; H3-K9-HMTase 3; Em:AF134726.3; NG36/G9a; NG36; Histone-Lysine N-Methyltransferase, H3 Lysine-9 Specific 3; Chromosome 6 Open Reading Frame 30; Ankyrin Repeat-Containing Protein; G9A Histone Methyltransferase; HLA-B-Associated Transcript 8; EC 2.1.1.367; Protein G9a; EC 2.1.1.-; GAT8

Background

Gene Name: EHMT2
NCBI Gene Entry: 10919

Storage

Store at liquid nitrogen for 1 year.

Kit Components

1. Human EHMT2 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.

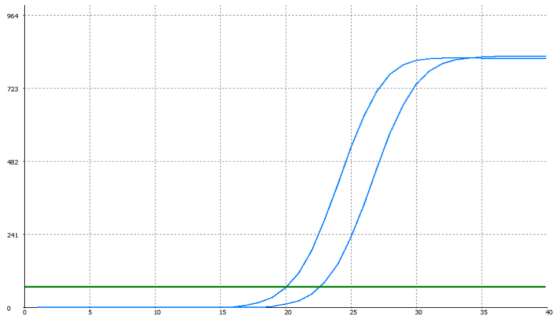
Instructions For Use

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

Note: This product is for research use only.

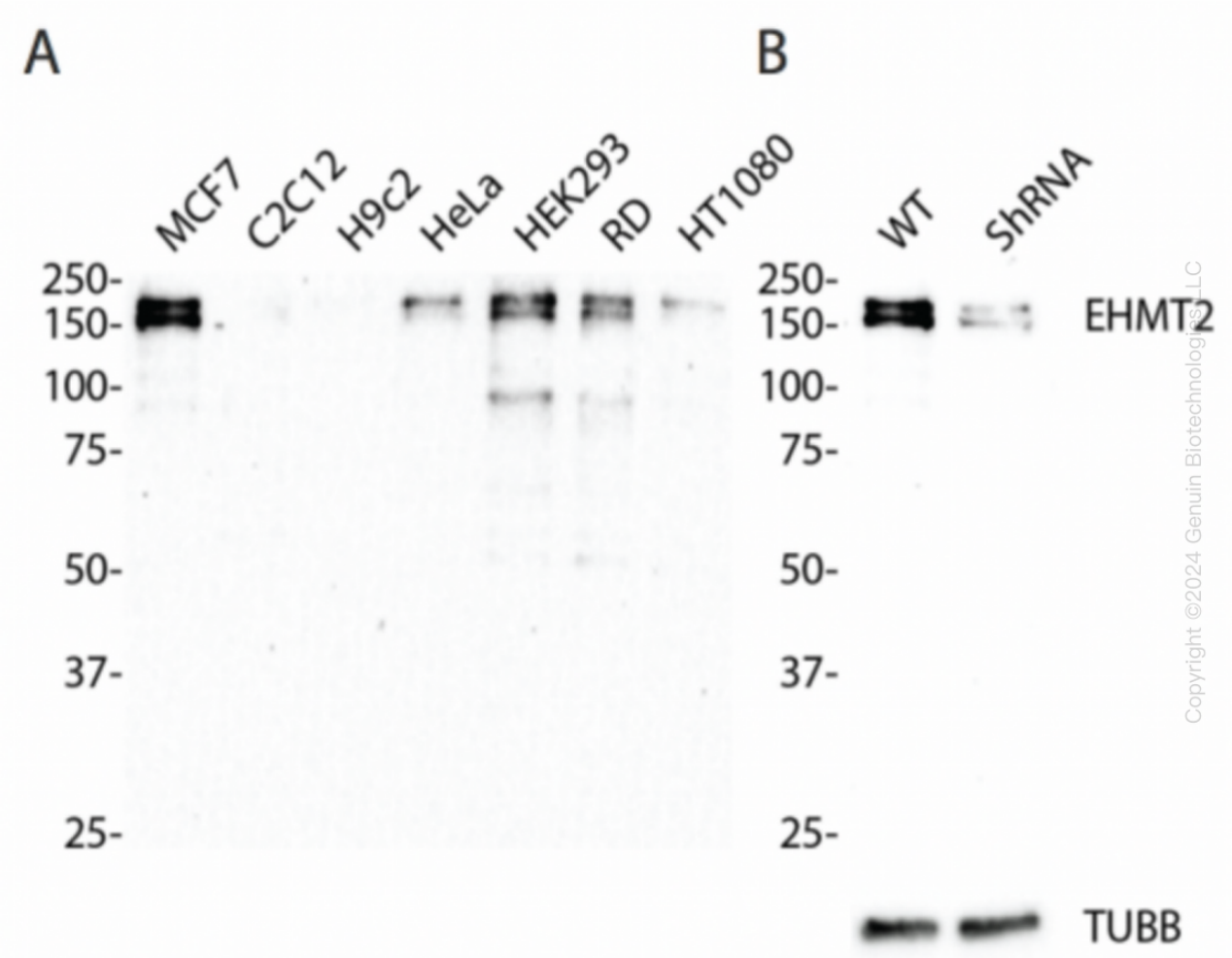
Validation Data

Human EHMT2 Knockdown Cell Line (WB-Validated)



Genotype	Ct Value
Wild-Type	19.80
Knock-Down	22.36
ΔCt (Ct_{KD}-Ct_{WT})	2.56
% mRNA Reduction	⬇ 83%

RT-qPCR analysis. MCF7 cells were infected with EHMT2-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. EHMT2 protein expression in wild-type (WT) and shRNA knockdown (KD) MCF7 cells was detected using Western blotting. TUBB served as a loading control. The blots were incubated with primary antibodies against EHMT2 and TUBB, respectively, followed

by incubating with HRP-conjugated goat anti-rabbit secondary antibody. Images were developed using FeQ™ ECL Substrate Kit.