Human DNMT1 Knockdown Cell Lysate

Cat. No. DNMT1-339HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated DNMT1 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	This gene encodes an enzyme that transfers methyl groups to cytosine nucleotides of genomic DNA. This protein is the major enzyme responsible for maintaining methylation patterns following DNA replication and shows a preference for hemi-methylated DNA. Methylation of DNA is an important component of mammalian epigenetic gene regulation. Aberrant methylation patterns are found in human tumors and associated with developmental abnormalities. Variation in this gene has been associated with cerebellar ataxia, deafness, and narcolepsy, and neuropathy, hereditary sensory, type IE. Alternative splicing results in multiple transcript variants.
Form	Cell-Tissue Lysis buffer
Molecular Mass	183 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.

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Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg DNMT1 KD HeLa cell lysate
Protein Families	Druggable Genome, Transcription Factors
Protein Pathways	Cysteine and methionine metabolism, Metabolic pathways
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	DNMT1 DNA (cytosine-5-)-methyltransferase 1 [Homo sapiens (human)]
Official Symbol	DNMT1
Synonyms	DNMT1; DNA (cytosine-5-)-methyltransferase 1; DNMT; DNA (cytosine-5)-methyltransferase 1; CXXC9; MCMT; m.HsaI; DNA MTase HsaI; CXXC finger protein 9; DNA methyltransferase 1; DNA methyltransferase HsaI; CXXC-type zinc finger protein 9; AIM; HSN1E; FLJ16293; MGC104992;
Gene ID	1786
mRNA Refseq	NM_001130823
Protein Refseq	NP_001124295
MIM	126375

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UniProt ID	P26358

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