

Recombinant Human DOT1L 293 Cell Lysate

Cat. No. DOT1L-6841HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for DOT1-like, histone H3 methyltransferase (<i>S. cerevisiae</i>) (DOT1L) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

DOT1L DOT1-like, histone H3 methyltransferase (*S. cerevisiae*) [*Homo sapiens*]

Official Symbol

DOT1L

Synonyms

DOT1L; DOT1-like, histone H3 methyltransferase (*S. cerevisiae*); histone-lysine N-methyltransferase, H3 lysine-79 specific; DOT1; histone methyltransferase DOT1L; KIAA1814; KMT4; H3-K79-HMTase; DOT1-like protein; lysine N-methyltransferase 4; histone H3-K79 methyltransferase; DKFZp586P1823;

Gene ID

84444

mRNA Refseq

NM_032482

Protein Refseq

NP_115871

MIM

607375

UniProt ID

Q8TEK3

Chromosome Location

19p13.3

Pathway

Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem; Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem;

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Function

DNA binding; histone-lysine N-methyltransferase activity; methyltransferase activity; protein binding; transcription factor binding; transferase activity;

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