

Recombinant Human ALKBH3 293 Cell Lysate

Cat. No. ALKBH3-8901HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for alkB, alkylation repair homolog 3 (E. coli) (ALKBH3) 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

ALKBH3 alkB, alkylation repair homolog 3 (E. coli) [Homo sapiens]

Official Symbol

ALKBH3

Synonyms

ALKBH3; alkB, alkylation repair homolog 3 (E. coli); alpha-ketoglutarate-dependent dioxygenase alkB homolog 3; DEPC 1; prostate cancer antigen 1; prostate cancer antigen-1; alkylated DNA repair protein alkB homolog 3; ABH3; PCA1; DEPC1; DEPC-1; FLJ43614; MGC118790; MGC118792; MGC118793;

Gene ID

221120

mRNA Refseq

NM_139178

Protein Refseq

NP_631917

MIM

610603

UniProt ID

Q96Q83

Chromosome Location

11p11.2

Pathway

ABH3 mediated Reversal of Alkylation Damage, organism-specific biosystem; DNA Damage Reversal, organism-specific biosystem; DNA Repair, organism-specific biosystem; Reversal of Alkylation Damage By DNA Dioxygenases, organism-specific

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biosystem;

Function

DNA-N1-methyladenine dioxygenase activity; L-ascorbic acid binding; cytosine C-5 DNA demethylase activity; ferrous iron binding; metal ion binding; oxidoreductase activity; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen;

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