

Recombinant Human ALKBH2 293 Cell Lysate

Cat. No. ALKBH2-8902HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for alkB, alkylation repair homolog 2 (E. coli) (ALKBH2), transcript variant 2 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.
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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	ALKBH2 alkB, alkylation repair homolog 2 (E. coli) [Homo sapiens]
Official Symbol	ALKBH2
Synonyms	ALKBH2; alkB, alkylation repair homolog 2 (E. coli); alpha-ketoglutarate-dependent dioxygenase alkB homolog 2; ABH2; MGC90512; oxy DC1; 2OG-Fe(II) oxy DC1; alkylated DNA repair protein alkB homolog 2; FLJ99103;
Gene ID	121642
mRNA Refseq	NM_001001655
Protein Refseq	NP_001001655
MIM	610602
UniProt ID	Q6NS38
Chromosome Location	12q24.11
Pathway	ABH2 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 biosystem;
Function	DNA-N1-methyladenine dioxygenase activity; cytosine C-5 DNA demethylase activity;

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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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