

Recombinant Human ALKBH3 293 Cell Lysate

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

SPECIFICATION

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.
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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 biosystem;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA