



Anti-ALKBH3 (full length) polyclonal antibody (DPAB-DC966)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The Escherichia coli AlkB protein protects against the cytotoxicity of methylating agents by repair of the specific DNA lesions generated in single-stranded DNA. ALKBH2 (MIM 610602) and ALKBH3 are E. coli AlkB homologs that catalyze the removal of 1-methyladenine and 3-methylcytosine (Duncan et al., 2002 [PubMed 12486230]).[supplied by OMIM, Mar 2008]
Immunogen	DEPC-1 (AAH15155, 1 a.a. ~ 139 a.a) full-length recombinant protein with GST tag. The sequence is MEPNPHWHPVLR TLKNRIEENTGHTFNSLLCNLYRNEKDSVDWHSDDPEPSLGRCPIIASL SFGATRTFEMRKKPPPEENG DYTYVERVKIPLDHGTLLIMEGATQADWQHRVPKEYHSRE PRVNLTFRTVYPDPRGAPW
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	ALKBH3 alkB, alkylation repair homolog 3 (E. coli) [Homo sapiens (human)]
Official Symbol	ALKBH3
Synonyms	ALKBH3; alkB, alkylation repair homolog 3 (E. coli); ABH3; PCA1; DEPC1; DEPC-1; alpha-ketoglutarate-dependent dioxygenase alkB homolog 3; prostate cancer antigen 1; prostate cancer antigen-1; alkylated DNA repair protein alkB homolog 3;
Entrez Gene ID	221120
Protein Refseq	NP_631917
UniProt ID	Q96Q83
Chromosome Location	11p11.2
Pathway	ABH3 mediated Reversal of Alkylation Damage; DNA Repair.
Function	DNA-N1-methyladenine dioxygenase activity; L-ascorbic acid binding; cytosine C-5 DNA demethylase activity; ferrous iron binding