



ALKB2 Polyclonal Antibody

Catalog No	BYab-05196
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	ALKBH2 ABH2
Protein Name	Alpha-ketoglutarate-dependent dioxygenase alkB homolog 2 (EC 1.14.11.33) (Alkylated DNA repair protein alkB homolog 2) (DNA oxidative demethylase ALKBH2) (Oxy DC1)
Immunogen	Synthesized peptide derived from human protein . at AA range: 140-220
Specificity	ALKB2 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	28kD
Cell Pathway	Nucleus . Nucleus, nucleolus . Nucleus, nucleoplasm . Relocates to the replication foci during S-phase. .
Tissue Specificity	Detected in colon, small intestine, ovary, testis, prostate, skeletal muscle, heart, liver and urinary bladder.
Function	cofactor: Binds 1 Fe(2+) ion per subunit.,enzyme regulation: Activated by ascorbate.,function: Dioxygenase that repairs alkylated DNA and RNA containing 1-methyladenine and 3-methylcytosine by oxidative demethylation. Has strong preference for double-stranded DNA. Has low efficiency with single-stranded substrates. Requires molecular oxygen, alpha-ketoglutarate and iron.,similarity: Belongs to the alkB family.,subcellular location: Detected in replication foci during S-phase.,tissue specificity: Detected in colon, small intestine, ovary, testis, prostate, skeletal muscle, heart, liver and urinary bladder.,

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Background	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 and ALKBH3 (MIM 610603) 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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

