

Anti-ALKB3 antibody



Description	Unconjugated Rabbit polyclonal to ALKB3
Model	STJ191787
Host	Rabbit
Reactivity	Human
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human ALKB3 protein.
Immunogen Region	110-190aa
Gene ID	221120
Gene Symbol	ALKBH3
Dilution range	WB 1:500-2000 ELISA 1:5000-20000
Specificity	ALKB3 Polyclonal Antibody detects endogenous levels of protein.
Tissue Specificity	Ubiquitous. Detected in heart, pancreas, skeletal muscle, thymus, testis, ovary, spleen, prostate, small intestine, peripheral blood leukocytes, urinary bladder and colon.
Purification	ALKB3 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Alpha-ketoglutarate-dependent dioxygenase alkB homolog 3 Alkylated DNA repair protein alkB homolog 3 hABH3 DEPC-1 Prostate cancer antigen 1
Molecular Weight	31 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:30141 OMIM:610603
Alternative Names	Alpha-ketoglutarate-dependent dioxygenase alkB homolog 3 Alkylated DNA repair protein alkB homolog 3 hABH3 DEPC-1 Prostate cancer antigen 1
Function	Dioxygenase that mediates demethylation of DNA and RNA containing 1-methyladenosine (m1A) . Repairs alkylated DNA containing 1-methyladenosine (m1A) and 3-methylcytosine (m3C) by oxidative demethylation . Has a strong preference for single-stranded DNA . Able to process alkylated m3C within double-stranded regions via its interaction with ASCC3, which promotes DNA unwinding to generate single-stranded substrate needed for ALKBH3 . Also acts on RNA . Demethylates N(1)-methyladenosine (m1A) RNA, an epigenetic internal modification of messenger RNAs (mRNAs) highly enriched within 5'-untranslated regions (UTRs) and in the vicinity of start codons . Requires molecular oxygen, alpha-ketoglutarate and iron .
Cellular Localization	Nucleus Cytoplasm. Predominantly localizes to the nucleus.

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