

Rabbit anti-Human, Mouse ALKBH3 Polyclonal Antibody | anti-ALKBH3 antibody

ALKBH3 Antibody

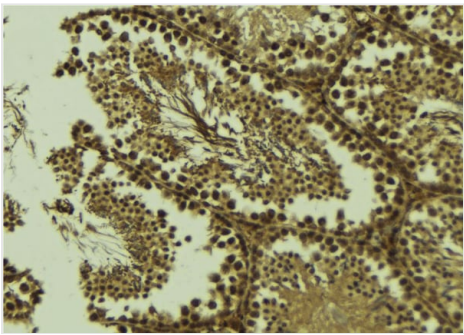
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323434	Rabbit	Human, Mouse	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

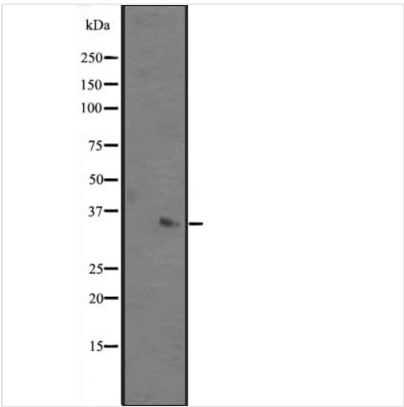
ALKBH3; Polyclonal Antibody; ALKBH3 Antibody; 1700108H04Rik; 1810020C19Rik; ABH3; AlkB homolog 3; alkB; alkylation repair homolog 3 (E. coli); ALKB3_HUMAN; Alkylated DNA repair protein alkB homolog 3; alkylation repair homolog 3; Alpha-ketoglutarate-dependent dioxygenase alkB homolog 3; DEPC 1; DEPC-1; DEPC1; EC 1.14.11.; FLJ43614; mABH3; MGC118790; MGC118792; MGC118793; MGC134125; PCA1; Prostate cancer antigen 1; Prostate cancer antigen-1; RP23-375N21.4; anti-ALKBH3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	ALKBH3 antibody detects endogenous levels of total ALKBH3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	286
Applicable Applications for anti-ALKBH3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm. Nucleus.
Tissue Specificity	Ubiquitous. Detected in heart, pancreas, skeletal muscle, thymus, testis, ovary, spleen, prostate, small intestine, peripheral blood leukocytes, urinary bladder and colon.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (92%)
Conjugation	Unconjugated



IHC (Immunohistochemistry)
AAA323434 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of ALKBH3 expression in Mouse kidney tissue lysates ;, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ALKBH3 antibody	Function: Dioxxygenase that mediates demethylation of DNA and RNA containing 1-methyladenosine (m1A) (PubMed:12486230, PubMed:12594517, PubMed:16174769, PubMed:26863196, PubMed:26863410). Repairs alkylated DNA containing 1-methyladenosine (m1A) and 3-methylcytosine (m3C) by oxidative demethylation (PubMed:12486230, PubMed:12594517, PubMed:16174769, PubMed:25944111). Has a strong preference for single-stranded DNA (PubMed:12486230, PubMed:12594517, PubMed:16174769). 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 (PubMed:22055184). Also acts on RNA (PubMed:12594517, PubMed:16174769, PubMed:26863196, PubMed:26863410, PubMed:16858410). Demethylates N1-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 (PubMed:26863196, PubMed:26863410). Requires molecular oxygen, alpha-ketoglutarate and iron (PubMed:22055184, PubMed:16858410). Subunit Structure: Interacts with the ASC-1 complex, notably composed of ASCC3 (PubMed:22055184). Interacts with OTUD4; the interaction is direct (PubMed:25944111). Interacts with USP7 and USP9X (PubMed:25944111). Post-translational Modifications: Ubiquitinated; undergoes 'Lys-48'-linked polyubiquitination. OTUD4 promotes USP7 and USP9X-dependent deubiquitination of 'Lys-48'-polyubiquitinated ALKBH3 promoting the repair of alkylated DNA lesions. Similarity: Belongs to the alkB family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21040275
NCBI GeneID	221120
NCBI Accession #	NP_631917.1
NCBI GenBank Nucleotide #	NM_139178.3
UniProt Accession #	Q96Q83; Q3SYI0; Q6NX57; Q96BU8; A6NDJ1
Molecular Weight	Observed: 33 kDa Predicted: 34 kDa
NCBI Official Full Name	alpha-ketoglutarate-dependent dioxxygenase alkB homolog 3
NCBI Official Synonym Full Names	alkB homolog 3, alpha-ketoglutaratedependent dioxxygenase
NCBI Official Symbol	ALKBH3
NCBI Official Synonym Symbols	ABH3; PCA1; DEPC1; hABH3; DEPC-1
NCBI Protein Information	alpha-ketoglutarate-dependent dioxxygenase alkB homolog 3

UniProt Protein Name	Alpha-ketoglutarate-dependent dioxygenase alkB homolog 3
UniProt Gene Name	ALKBH3
UniProt Synonym Gene Names	hABH31 PublicationManual assertion based on opinion iniRef.7

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/alkbh3-antibody-immunohistochemistry-western-blot-elisa/323434>