

Rabbit ALKBH2 Polyclonal Antibody | anti-ALKBH2 antibody

ALKBH2 Antibody

CATALOG # AAA40005	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
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PRODUCT SYNONYMS

ALKBH2; Polyclonal Antibody; ALKBH2 Antibody; ABH2; Alpha-ketoglutarate-dependent dioxygenase alkB homolog 2; Alkylated DNA repair protein alkB homolog 2; alkB; alkylation repair homolog 2 (E. coli); anti-ALKBH2 antibody

PRODUCT SPECIFICATIONS

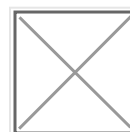
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	ALKBH2 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	261
Applicable Applications for anti-ALKBH2 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	ALKBH2 antibody was raised against a 15 amino acid synthetic peptide near the carboxy terminus of human ALKBH2.
Buffer	ALKBH2 Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	ALKBH2 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of ALKBH2 in human kidney tissue with ALKBH2 antibody at 10 µg/mL.



WB (Western Blot)

Western blot analysis of ALKBH2 in human kidney tissue lysate with ALKBH2 antibody at (A) 1 and (B) 2 µg/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-ALKBH2 antibody	ALKBH2 Antibody: The E. 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 are mammalian homologs of AlkB that catalyze the removal of 1-methyladenine and 3-methylcytosine, modifications that left unchecked could lead to cancerous cells. Mutations in both ALKBH2 and ALKBH3 have been observed in pediatric brain tumors indicating that these proteins are important in the prevention of cancer formation. Like the histone demethylase JMJD1A, ALKBH2 is a non-heme iron enzyme that is inhibited by Nickel ions, suggesting that inhibition of ALKBH2 by Nickel ions may play a role in the development of cancer. Conversely, ALKBH2 mRNA and protein levels are increased glioma cells following Photofrin-mediated photodynamic therapy, an adjuvant therapy in cancer treatment, suggesting that down-regulating ALKBH2 expression in cancer cells may enhance the anti-cancer effectiveness of this treatment.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	224451107
NCBI GeneID	121642
NCBI Accession #	NP_001138847
NCBI GenBank Nucleotide #	NM_001145375.1
UniProt Accession #	Q6NS38; Q5XLE3; A4PET2
Molecular Weight	17,083 Da
NCBI Official Full Name	alpha-ketoglutarate-dependent dioxygenase alkB homolog 2 isoform 1
NCBI Official Synonym Full Names	alkB, alkylation repair homolog 2 (E. coli)
NCBI Official Symbol	ALKBH2
NCBI Official Synonym Symbols	ABH2
NCBI Protein Information	alpha-ketoglutarate-dependent dioxygenase alkB homolog 2; oxy DC1; 2OG-Fe(II) oxy DC1; DNA oxidative demethylase ALKBH2; alkylated DNA repair protein alkB homolog 2
UniProt Protein Name	Alpha-ketoglutarate-dependent dioxygenase alkB homolog 2
UniProt Gene Name	ALKBH2
UniProt Synonym Gene Names	ABH2
UniProt Entry Name	ALKB2_HUMAN

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/alkbh2-antibody-immunohistochemistry-western-blot-elisa/40005>