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Datasheet for ABIN6991387  
**anti-ALKBH2 antibody (C-Term)**

### Overview

Quantity:	0.1 mg
Target:	ALKBH2
Binding Specificity:	AA 180-230, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALKBH2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Immunogen:	ALKBH2 antibody was raised against a 15 amino acid synthetic peptide near the carboxy terminus of human ALKBH2. The immunogen is located within amino acids 180 - 230 of ALKBH2.
Isotype:	IgG
Purification:	ALKBH2 Antibody is affinity chromatography purified via peptide column.

### Target Details

Target:	ALKBH2
Alternative Name:	ALKBH2 ( <a href="#">ALKBH2 Products</a> )
Background:	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

## Target Details

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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.

Gene ID:	121642
NCBI Accession:	<a href="#">NP_001138847</a>
UniProt:	<a href="#">Q6NS38</a>
Pathways:	<a href="#">DNA Damage Repair</a>

## Application Details

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Application Notes:	ALKBH2 antibody can be used for detection of ALKBH2 by Western blot at 1 - 2 $\mu$ g/mL. Antibody can also be used for immunohistochemistry starting at 10 $\mu$ g/mL.  Antibody validated: Western Blot in human samples and Immunohistochemistry in human samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	1 mg/mL
Buffer:	ALKBH2 Antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C, 4 °C

## Handling

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Storage Comment: ALKBH2 antibody can be stored at 4°C for three months and -20°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.