



# ALKBH2 Rabbit mAb

<b>Catalog No</b>	YP-rAb-17438
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human,Mouse,Rat
<b>Applications</b>	WB,FC
<b>Gene Name</b>	ALKBH2 ABH2
<b>Protein Name</b>	Alpha-ketoglutarate-dependent dioxygenase alkB homolog 2 (Alkylated DNA repair protein alkB homolog 2) (DNA oxidative demethylase ALKBH2) (Oxy DC1)
<b>Purification Process</b>	Protein A
<b>Specificity</b>	Endogenous
<b>Formulation</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source</b>	Monoclonal, Rabbit,IgG
<b>Dilution</b>	WB 1:1000-1:5000; FC 1:100-1:500;
<b>Concentration</b>	0.5 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-15° C to -25° C/1 year(Do not lower than -25° C)
<b>Synonyms</b>	
<b>Observed Band</b>	29kD
<b>Calculated Molecular Weight</b>	29kD
<b>Cell Pathway</b>	Nucleus . Nucleus, nucleolus . Nucleus, nucleoplasm . Relocates to the replication foci during S-phase. .
<b>Tissue Specificity</b>	Detected in colon, small intestine, ovary, testis, prostate, skeletal muscle, heart, liver and urinary bladder.
<b>Function</b>	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.,
<b>Background</b>	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],

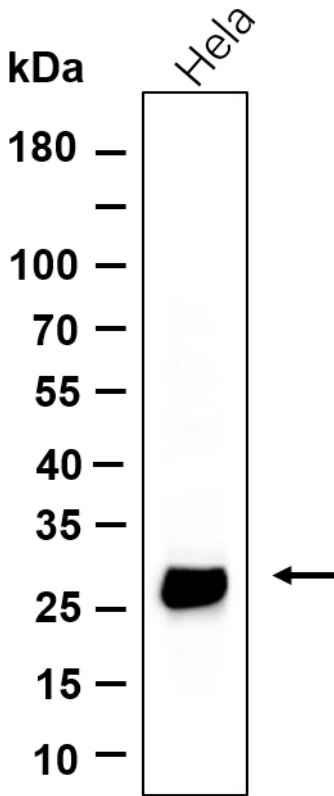
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Western blot analysis of lysates from HeLa cell, primary antibody was diluted at 1:1000, 4° over night, Dylight 800 secondary antibody was diluted at 1:10000, 37° 1hour.



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