

Product Name: KD-Validated ALKBH2 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01218

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 29.3kDa

Antigen Information

Gene Name	ALKBH2 ALKBH2; AlkB Homolog 2, Alpha-Ketoglutarate Dependent Dioxygenase; ABH2; Alpha-Ketoglutarate-Dependent Dioxygenase AlkB Homolog 2; Alkylated DNA Repair Protein AlkB
Alternative Names	Homolog 2; DNA Oxidative Demethylase ALKBH2; MGC90512; Oxy DC1; AlkB, Alkylation Repair Homolog 2 (E. Coli); AlkB, Alkylation Repair Homolog 2; 2OG-Fe(II) Oxy DC1; EC 1.14.11.33
Gene ID	121642.0
SwissProt ID	Q6NS38
Immunogen	A synthesized peptide derived from human ALKBH2

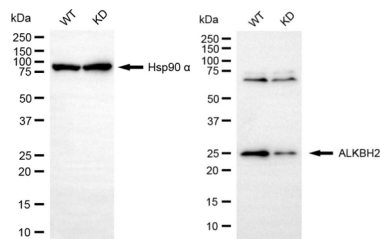
Background

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]

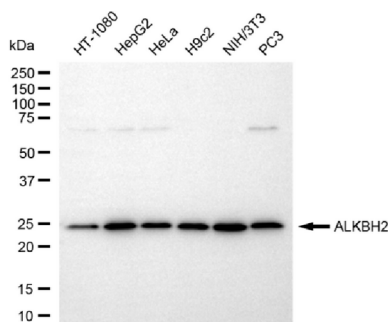
Research Area

Epigenetics and Nuclear Signaling

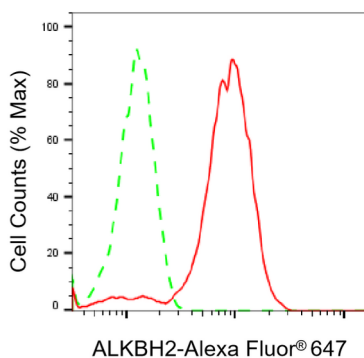
Image Data



Western blotting analysis using ALKBH2 antibody (KVA01218). ALKBH2 expression in wild-type (WT) and ALKBH2 knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ALKBH2 antibody (KVA01218, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using ALKBH2 antibody (KVA01218). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ALKBH2 antibody (KVA01218, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Flow cytometric analysis of ALKBH2 expression in HepG2 cells using ALKBH2 antibody (KVA01218, 1:2,000). Green, isotype control; red, ALKBH2.