

For Research Use Only

ALKBH2 Polyclonal antibody

Catalog Number: 17809-1-AP



Basic Information

Catalog Number: 17809-1-AP	GenBank Accession Number: BC070489	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 121642	Recommended Dilutions: WB 1:500-1:1000
Source: Rabbit	Full Name: alkB, alkylation repair homolog 2 (E. coli)	
Isotype: IgG	Calculated MW: 261 aa, 29 kDa	
Immunogen Catalog Number: AG12108	Observed MW: 30-35 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB: Caco-2 cells,
Species Specificity: human, mouse, rat	

Background Information

Escherichia coli AlkB is a DNA repair enzyme that represents the founding member of the AlkB family of non-heme iron-dependent dioxygenases. The human genome encodes nine AlkB homologs termed AlkB homolog 1 through 8 (ALKBH1 through 8) plus a ninth member termed fat mass and obesity associated (FTO). Bacterial AlkB as well as human ALKBH2 and ALKBH3 catalyze the direct reversal of DNA methylation damage through a distinct oxidative demethylation reaction. Importantly, ALKBH2 has been shown to play a role in DNA alkylation damage repair in human, mouse and plant cells. Full-length ALKBH2 has a molecular weight of about 30kDa and ALKBH2 variant encoded by an alternatively spliced transcript with a frameshift deletion of the C-terminal dioxygenase domain has a molecular weight of about 25kDa (PMID:22079122).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

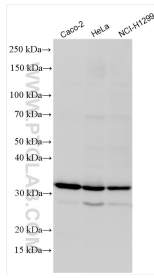
For technical support and original validation data for this product please contact:

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 17809-1-AP (ALKBH2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.