

ALKBH2 Polyclonal antibody

Catalog Number: 17809-1-AP

Basic Information

Catalog Number:

17809-1-AP

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12108

GenBank Accession Number:

BC070489

GeneID (NCBI):

121642

UNIPROT ID:

Q6NS38

Full Name:

alkB, alkylation repair homolog 2 (E. coli)

Calculated MW:

261 aa, 29 kDa

Observed MW:

30-35 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : Caco-2 cells,

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

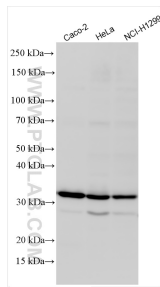
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Selected Validation Data



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.