
ALKBH2 Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 254329

Unit: 0.1 mg

Description:

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 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.

Isotype: Rabbit Ig

Applications: E, WB

Species Reactivity: H, M, R

Format: Each vial contains 0.1 ml IgG in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

Alternate Names: ALKBH2; Alpha-ketoglutarate-dependent dioxygenase alkB homolog2; alkylation repair homolog 2; ABH2

Accession No.: NP_001138847

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within human ALKBH2.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.