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Product datasheet for TA321740S

ALKBH1 Rabbit Polyclonal Antibody

Product data:

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Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 200-1000 WB positive control: Mouse pancreas tissue
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to N terminal 250 amino acids of human alkB, alkylation repair homolog 1 (E. coli)
Formulation:	PBS pH7.3, 0.05% NaN3, 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	44 kDa
Gene Name:	alkB homolog 1, histone H2A dioxygenase
Database Link:	NP_006011 Entrez Gene 211064 MouseEntrez Gene 8846 Human Q13686

View online »

Background: This gene encodes a homolog to the E. coli alkB gene product. The E. coli alkB protein is part of the adaptive response mechanism of DNA alkylation damage repair. It is involved in damage reversal by oxidative demethylation of 1-methyladenine and 3-methylcytosine. Dioxygenase that repairs alkylated single-stranded DNA and RNA containing 3-methylcytosine by oxidative demethylation. Requires molecular oxygen; alpha-ketoglutarate and iron. May have a role in placental trophoblast lineage differentiation. Has DNA lyase activity and introduces double-stranded breaks at abasic sites. Cleaves both single-stranded DNA and double-stranded DNA at abasic sites; with the greatest activity towards double-stranded DNA with two abasic sites.

Synonyms: ABH; ABH1; alkB; ALKBH; hABH

Product images:
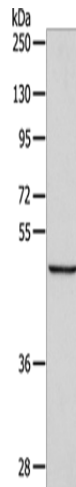
Gel: 10%SDS-PAGE
Lysate: 40 μg
Lane: Mouse pancreas tissue
Primary antibody: [TA321740] (ALKBH1 Antibody) at dilution 1/250
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 2 minutes