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## **ALKBH1 (N) Antibody, Rabbit Polyclonal**

**Cat#: R2303-1**

**Quantity: 100 ul**

**Predicted | Observed M.W.: 44 | 48 kDa**

**Lot#: Refer to vial**

**Application: WB**

**Uniprot ID: Q13686**

### **Background:**

ALKBH1, alkylated DNA repair protein alkB homolog 1, repairs alkylated single-stranded DNA and RNA containing 3-methylcytosine by oxidative demethylation. ALKBH1 requires molecular oxygen, alpha-ketoglutarate and iron. ALKBH1 may have a role in placental trophoblast lineage differentiation. ALKBH1 has DNA lyase activity and introduces double-stranded breaks at abasic sites. ALKBH1 cleaves both single-stranded DNA and double-stranded DNA at abasic sites, with the greatest activity towards double-stranded DNA with two abasic sites.

### **Other Names:**

Alpha-ketoglutarate-dependent dioxygenase ABH1, DNA lyase ABH1, DNA oxidative demethylase ALKBH1, ABH, ABH1, ALKBH

### **Source and Purity:**

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of human ALKBH1. Antibodies were purified by affinity purification using immunogen.

### **Storage Buffer and Condition:**

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN<sub>3</sub>. Store at -20 °C. Stable for 6 months from date of receipt.

### **Species Specificity:**

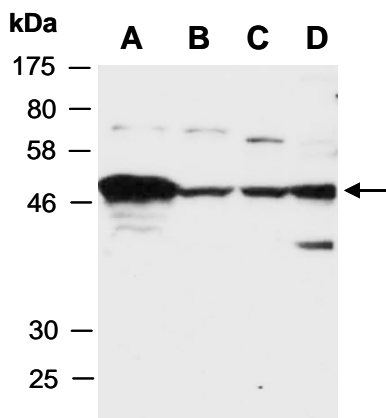
Human, Mouse

### **Tested Applications:**

WB: 1:1,000-1:3,000 (detect endogenous protein\*)

\*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

**Product Data:**



**Fig 1.** Western blot of total cell extracts from (A) mouse brain, (B) mouse thymus, (C) human HeLa, (D) human Jurkat; using anti-ALKBH1 (N) (R2303-1) at RT for 2 h.