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Datasheet for ABIN1712164  
**anti-ALKBH1 antibody (AA 1-100) (HRP)**

### Overview

Quantity:	100 µL
Target:	ALKBH1
Binding Specificity:	AA 1-100
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALKBH1 antibody is conjugated to HRP
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ABH1/ALKB
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Human,Dog,Cow,Sheep,Pig,Horse,Rabbit
Purification:	Purified by Protein A.

### Target Details

Target:	ALKBH1
Alternative Name:	ABH1/ALKB ( <a href="#">ALKBH1 Products</a> )

## Target Details

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**Background:** Synonyms: ABH, ABH1, alkB, AlkB, alkylation repair homolog 1 E. coli, ALKB1\_HUMAN, ALKBH, ALKBH1, Alkylated DNA repair protein alkB homolog 1, Alkylation repair homolog 1, Alkylation repair, alkB homolog, Alpha-ketoglutarate-dependent dioxygenase ABH1, DNA lyase ABH1, hABH.

Background: ALKB protects DNA and RNA against damage from methylating compounds from the environment by directly reversing 1-methyladenine (1-meA) and 3-methylcytosine (3-meC) cytotoxic alkylation lesions in DNA and RNA. The enzymes act by oxidative demethylation, utilizing ferrous iron and alpha-ketoglutarate as cofactors, 2-oxoglutarate as a co-substrate, and molecular oxygen as the oxidizing agent. Deficiencies in DNA and RNA repair in mammals are associated with cancer, neurological disease and developmental defects. ALKB plays a role in resistance to anti-cancer drugs which attempt to damage tumor DNA. Escherichia coli ALKB protein belongs to the superfamily of 2-oxoglutarate- and iron(II)-dependent oxygenases.

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**Gene ID:** 8846

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**Pathways:** [DNA Damage Repair](#)

## Application Details

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**Application Notes:** WB 1:300-5000  
IHC-P 1:200-400  
IHC-F 1:100-500

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Concentration:** 1 µg/µL

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**Buffer:** Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

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**Preservative:** ProClin

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**Precaution of Use:** This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

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**Handling Advice:** Do NOT add Sodium Azide! Use of Sodium Azide will inhibit enzyme activity of horseradish peroxidase.

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**Storage:** -20 °C

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## Handling

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Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

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Expiry Date: 12 months