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Datasheet for ABIN1708539  
**anti-ALKBH1 antibody (AA 1-100) (Cy7)**

### 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 Cy7                                                                                      |
| Application:         | Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

### 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

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|-------------------|-----------------------------------------------|
| 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:** IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

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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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**Storage:** -20 °C

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

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## Handling

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Expiry Date: 12 months