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Datasheet for ABIN1695702

anti-ALKBH1 antibody (AA 1-100) (Alexa Fluor 488)

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 Alexa Fluor 488
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

Target:	ALKBH1
Alternative Name:	ABH1/ALKB (ALKBH1 Products)

Target Details

Background:	<p>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.</p> <p>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.</p>
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Gene ID:	8846
Pathways:	DNA Damage Repair

Application Details

Application Notes:	IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Handling

Expiry Date: 12 months