

## Product datasheet

# Recombinant Human ALKBH1 protein ab132191

1 Image

### Description

<b>Product name</b>	Recombinant Human ALKBH1 protein	
<b>Expression system</b>	Wheat germ	
<b>Accession</b>	<b><u>Q13686</u></b>	
<b>Protein length</b>	Full length protein	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	MGKMAAVGVSATLATEPGEDAFRKLFRFYRQSRPGTAD LEGVIDFSAAH AARGKGPQAQKVIKSQLNVSSVSEQNAYRAGLQPVSKW QAYGLKGYPGFI FIPNPFLPGYQWHWVKQCLKLYSQPNVCNLDKHMSKEE TQDLWEQSKEF LRYKEATKRRPRSLEKLRWVTVGYHYNWDSKKYSADHY TPFPSDLGFLS EQVAAACGFEDFRAEAGILNYYRLDSTLGIHVDRSELDHS KPLLSFSFGQ SAIFLLGGLQRDEAPTAMFMHSGDIMMSGFSRLLNHAVP RVLNPPEGEG LPHCLEAPLPAVLPRDSMVEPCSMEDWQVCASYLKTAR VNMTVRQVLATD QNFPLEPIEDEKRDISTEGFCHLDDQNSEVKRARINPHS	
<b>Predicted molecular weight</b>	68 kDa including tags	
<b>Amino acids</b>	1 to 389	

### Specifications

Our **Abpromise guarantee** covers the use of **ab132191** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	ELISA
	SDS-PAGE
	Western blot

**Form** Liquid

## Preparation and Storage

**Stability and Storage** Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.  
pH: 8.00  
Constituents: 0.31% Glutathione, 0.79% Tris HCl

## General Info

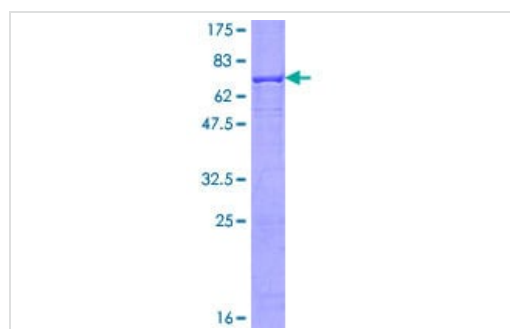
**Function** Dioxygenase that repairs alkylated single-stranded DNA and RNA containing 3-methylcytosine by oxidative demethylation. Requires molecular oxygen, alpha-ketoglutarate and iron. May have a role in placental trophoblast lineage differentiation (By similarity). Has DNA lyase activity and introduces 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. DNA lyase activity does not require alpha-ketoglutarate and iron.

**Tissue specificity** Ubiquitous.

**Sequence similarities** Belongs to the alkB family.  
Contains 1 Fe2OG dioxygenase domain.

**Cellular localization** Mitochondrion. Nucleus. Mainly localizes in euchromatin, largely excluded from heterochromatin and nucleoli.

## Images



12.5% SDS-PAGE analysis of ab132191 stained with Coomassie Blue.

SDS-PAGE - Recombinant Human ALKBH1 protein  
(ab132191)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
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