




Product datasheet

Anti-ALKBH1 antibody [EPR19215] ab195376

Recombinant **RabMAb**

★★★★★ 1 Abreviews 4 Images

Overview

Product name	Anti-ALKBH1 antibody [EPR19215]
Description	Rabbit monoclonal [EPR19215] to ALKBH1
Host species	Rabbit
Tested applications	Suitable for: WB, IP Unsuitable for: ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Sheep, Goat, Horse, Guinea pig, Cow, Cat, Dog, Non human primates 
Immunogen	Recombinant full length protein within Human ALKBH1 aa 1 to the C-terminus. The exact sequence is proprietary. Database link: Q13686  Run BLAST with  Run BLAST with
Positive control	WB: Jurkat, K562, A549, A431, C6, RAW 264.7, PC-12 and NIH/3T3 whole cell lysates; human fetal kidney, colon and fetal liver lysates; mouse brain and spleen lysates; rat spleen lysate. IP: K562 whole cell lysate.
General notes	

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

This product is a [recombinant rabbit monoclonal antibody](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR19215
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab195376** in the following tested applications.

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

Application	Abreviews	Notes
WB	★★★★★	1/1000. Detects a band of approximately 44 kDa (predicted molecular weight: 44 kDa). Milk recommended as blocking agent.
IP		1/30.

Application notes Is unsuitable for ICC/IF.

Target

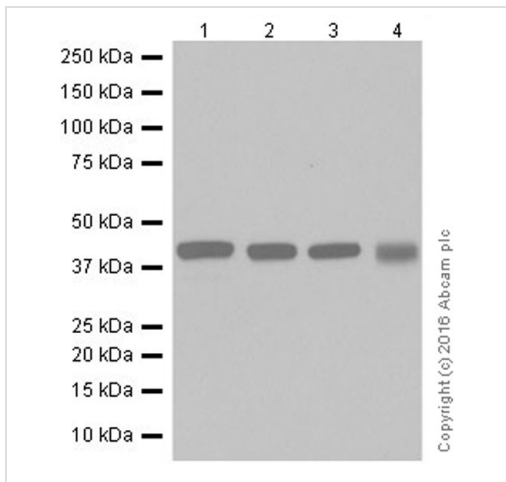
Function Dioxygenase that repairs alkylated single-stranded DNA and RNA containing 3-methylcytosine by oxidative demethylation. Requires molecular oxygen, alpha-ketoglutarate and iron. May have a role in placental trophoblast lineage differentiation (By similarity). Has DNA lyase activity and introduces 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



Western blot - Anti-ALKBH1 antibody [EPR19215] (ab195376)

All lanes : Anti-ALKBH1 antibody [EPR19215] (ab195376) at 1/1000 dilution

Lane 1 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

Lane 2 : K562 (Human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate

Lane 3 : A549 (Human lung carcinoma cell line) whole cell lysate

Lane 4 : A431 (Human epidermoid carcinoma cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

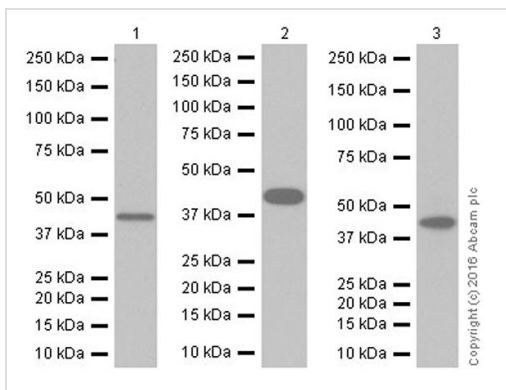
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 44 kDa

Observed band size: 44 kDa

Exposure time: 30 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-ALKBH1 antibody [EPR19215] (ab195376)

All lanes : Anti-ALKBH1 antibody [EPR19215] (ab195376) at 1/1000 dilution

Lane 1 : Human fetal kidney lysate

Lane 2 : Human colon lysate

Lane 3 : Human fetal liver lysate

Lysates/proteins at 10 µg per lane.

Secondary

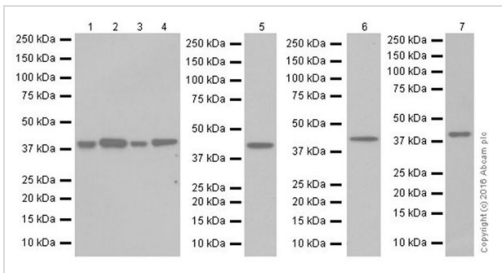
All lanes : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 44 kDa

Observed band size: 44 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-ALKBH1 antibody [EPR19215] (ab195376)

All lanes : Anti-ALKBH1 antibody [EPR19215] (ab195376) at 1/1000 dilution

Lane 1 : C6 (Rat glial tumor cell line) whole cell lysate

Lane 2 : RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

Lane 3 : PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate

Lane 4 : NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

Lane 5 : Mouse brain lysate

Lane 6 : Mouse spleen lysate

Lane 7 : Rat spleen lysate

Lysates/proteins at 10 µg per lane.

Secondary

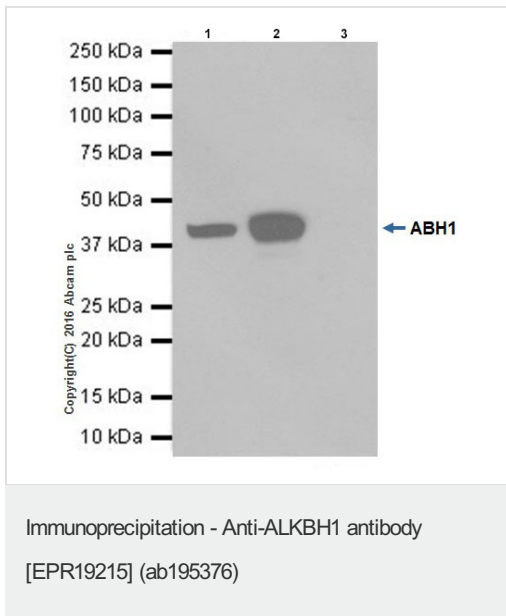
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 44 kDa

Observed band size: 44 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1-4: 30 seconds Lane 5-7: 3 minutes.



ALKBH1 was immunoprecipitated from 1mg of K562 (Human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate with ab195376 at 1/30 dilution.

Western blot was performed from the immunoprecipitate using ab195376 at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10000 dilution.

Lane 1: K562 whole cell lysate 10µg (Input).

Lane 2: ab195376 IP in K562 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab195376 in K562 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 10 seconds.

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

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