

Product datasheet

Anti-ALKBH1 antibody [EPR6175(2)] ab128895

Recombinant **RabMAb**

★★★★☆ 1 Abreviews 1 References 3 Images

Overview

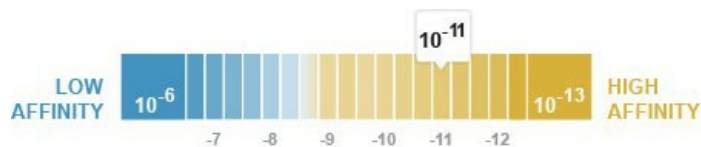
Product name	Anti-ALKBH1 antibody [EPR6175(2)]
Description	Rabbit monoclonal [EPR6175(2)] to ALKBH1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt, ICC/IF or IP
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide within Human ALKBH1 aa 1-100 (N terminal). The exact sequence is proprietary.
Positive control	A431, Jurkat, A549, K562, Raw 264.7, and NIH3T3 cell lysates, Human breast carcinoma tissue
General notes	Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

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 -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	K _D = 6.10 x 10 ⁻¹¹ M



[Learn more about K_D](#)

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
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Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR6175(2)
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab128895** 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 - 1/10000. Detects a band of approximately 43 kDa (predicted molecular weight: 43 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt, ICC/IF or IP.

Target

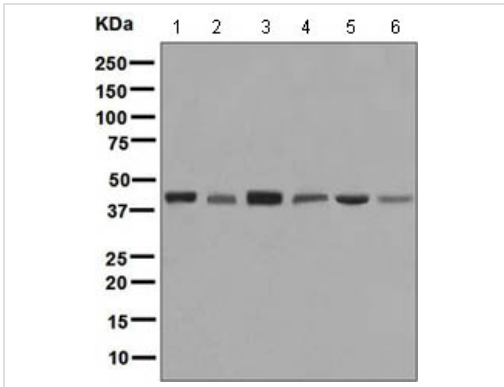
Function Dioxygenase that repairs alkylated single-stranded DNA and RNA containing 3-methylcytosine by oxidative demethylation. Requires molecular oxygen, alpha-ketoglutarate and iron. May have a role in placental trophoblast lineage differentiation (By similarity). Has DNA lyase activity and introduces 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 [EPR6175(2)] (ab128895)

All lanes : Anti-ALKBH1 antibody [EPR6175(2)] (ab128895) at 1/1000 dilution

Lane 1 : A431 cell lysate

Lane 2 : Jurkat cell lysate

Lane 3 : A549 cell lysate

Lane 4 : K562 cell lysate

Lane 5 : Raw 264.7 cell lysate

Lane 6 : NIH3T3 cell lysate

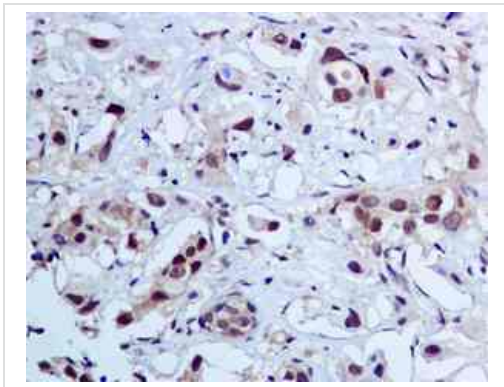
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

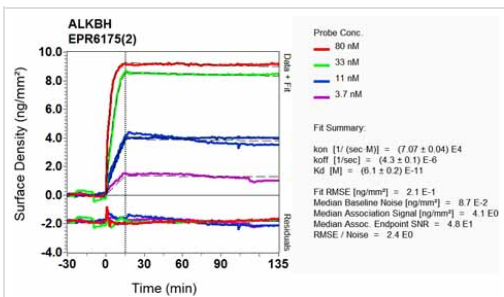
Predicted band size: 43 kDa

Observed band size: 43 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ALKBH1 antibody [EPR6175(2)] (ab128895)

ab128895, at a dilution of 1/50, staining ALKBH1 in paraffin-embedded Human breast carcinoma tissue by Immunohistochemistry.



Other - Anti-ALKBH1 antibody [EPR6175(2)] (ab128895)

Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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