

## Product datasheet

# Anti-ACF1 / BAZ1A antibody [EPR15826] - C-terminal ab187670

**KO VALIDATED** Recombinant RabMAb<sup>®</sup>

★ ★ ★ ★ ★ [1 Abreviews](#) [1 References](#) [8 Images](#)

### Overview

<b>Product name</b>	Anti-ACF1 / BAZ1A antibody [EPR15826] - C-terminal
<b>Description</b>	Rabbit monoclonal [EPR15826] to ACF1 / BAZ1A - C-terminal
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HeLa, Daudi, Molt4 and Jurkat whole cell lysate ( <a href="#">ab7899</a> ). IHC-P: Human colon and Human testis tissues. ICC/IF: HeLa cells.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR15826

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab187670 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)	1/10000 - 1/50000. Detects a band of approximately 203 kDa (predicted molecular weight: 178 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/250.

## Target

### Function

Component of the ACF complex, an ATP-dependent chromatin remodeling complex, that regulates spacing of nucleosomes using ATP to generate evenly spaced nucleosomes along the chromatin. The ATPase activity of the complex is regulated by the length of flanking DNA. Also involved in facilitating the DNA replication process. BAZ1A is the accessory, non-catalytic subunit of the complex which can enhance and direct the process provided by the ATPase subunit, SMARCA5, probably through targeting pericentromeric heterochromatin in late S phase. Moves end-positioned nucleosomes to a predominantly central position. May have a role in nuclear receptor-mediated transcription repression.

Component of the histone-fold protein complex CHRAC complex which facilitates nucleosome sliding by the ACF complex and enhances ACF-mediated chromatin assembly. The C-terminal regions of both CHRAC1 and POLE1 are required for these functions.

### Tissue specificity

Highly expressed in testis and at low or undetectable levels in other tissues analyzed.

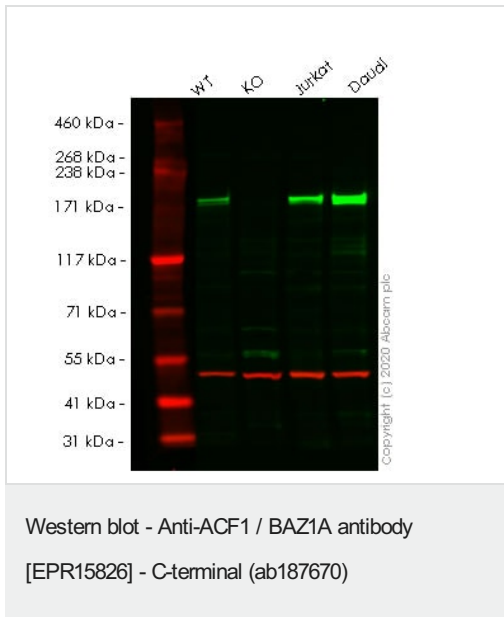
### Sequence similarities

Belongs to the WAL family.  
Contains 1 bromo domain.  
Contains 1 DDT domain.  
Contains 1 PHD-type zinc finger.  
Contains 1 WAC domain.

### Cellular localization

Nucleus. May target the CHRAC complex to heterochromatin.

## Images



**All lanes** : Anti-ACF1 / BAZ1A antibody [EPR15826] - C-terminal (ab187670) at 1/10000 dilution

**Lane 1** : Wild-type HeLa cell lysate

**Lane 2** : BAZ1A knockout HeLa cell lysate

**Lane 3** : Jurkat cell lysate

**Lane 4** : Daudi cell lysate

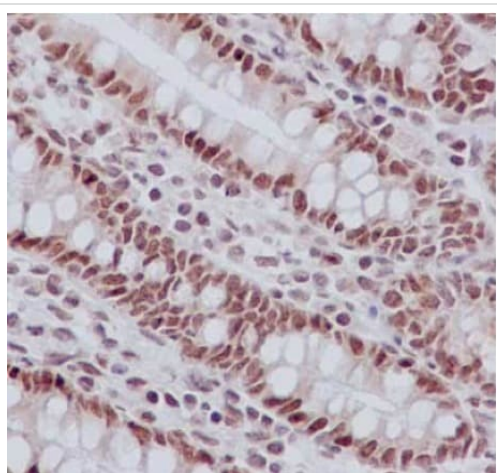
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 178 kDa

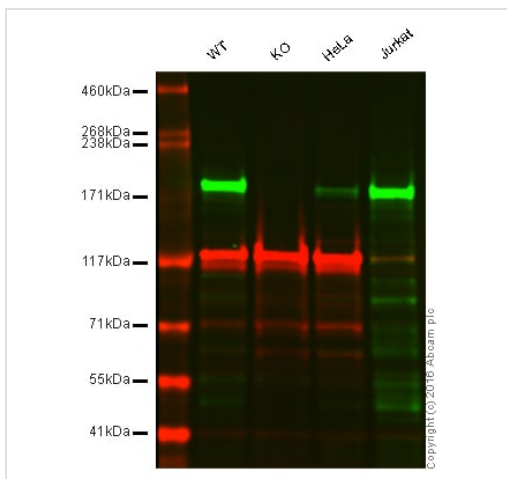
**Lanes 1-4:** Merged signal (red and green). Green - ab187670 observed at 178 kDa. Red - loading control **ab7291** observed at 50 kDa.

ab187670 Anti-BAZ1A antibody [EPR15826] - C-terminal was shown to specifically react with BAZ1A in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab264925** (knockout cell lysate **ab257856**) was used. Wild-type and BAZ1A knockout samples were subjected to SDS-PAGE. ab187670 and Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) were incubated overnight at 4°C at 1 in 10000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ACF1 / BAZ1A antibody [EPR15826] - C-terminal (ab187670)

Immunohistochemical analysis of paraffin embedded Human colon tissue labeling ACF1 / BAZ1A with ab187670 at 1/100 dilution. Prediluted (Ready to use) HRP Polymer for Rabbit IgG was used as a secondary antibody. Antigen retrieval: Perform heat mediated antigen retrieval using EDTA Buffer, pH 9. Counter stain: Hematoxylin.



Western blot - Anti-ACF1 / BAZ1A antibody [EPR15826] - C-terminal (ab187670)

**All lanes** : Anti-ACF1 / BAZ1A antibody [EPR15826] - C-terminal (ab187670) at 1/10000 dilution

**Lane 1** : Wild-type HAP1 cell lysate

**Lane 2** : BAZ1A knockout HAP1 cell lysate

**Lane 3** : HeLa cell lysate

**Lane 4** : Jurkat cell lysate

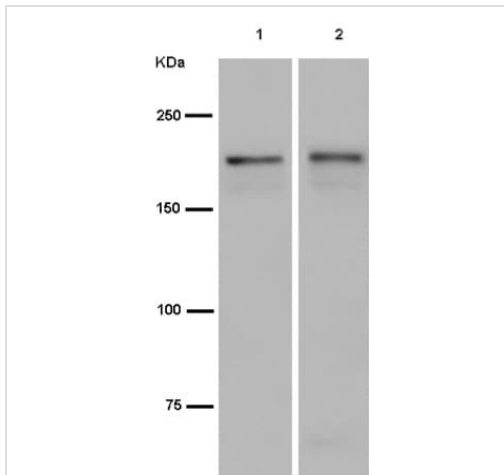
Lysates/proteins at 20 µg per lane.

**Predicted band size:** 178 kDa

**Lanes 1 - 4:** Merged signal (red and green). Green - ab187670 observed at 178 kDa. Red - loading control, **ab18058**, observed at 124 kDa.

ab187670 was shown to specifically react with BAZ1A in wild-type HAP1 cells. No band was observed when BAZ1A knockout samples were used. Wild-type and BAZ1A knockout samples were subjected to SDS-PAGE. Ab187670 and **ab18058** (loading control to Vinculin) were diluted at 1/10000 and 1/10000 dilution respectively and incubated overnight at 4C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD)

preadsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-ACF1 / BAZ1A antibody [EPR15826] - C-terminal (ab187670)

**All lanes** : Anti-ACF1 / BAZ1A antibody [EPR15826] - C-terminal (ab187670) at 1/10000 dilution

**Lane 1** : HeLa cell lysate

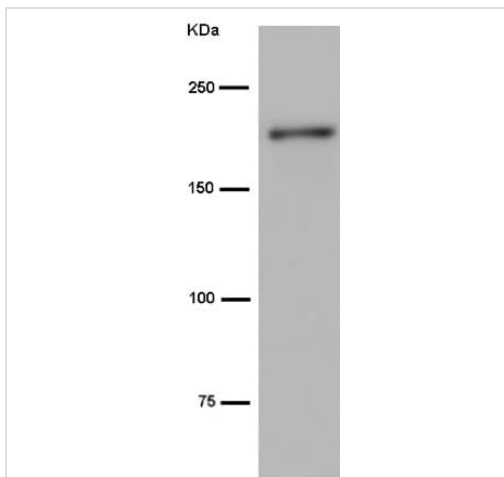
**Lane 2** : Molt4 cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 178 kDa



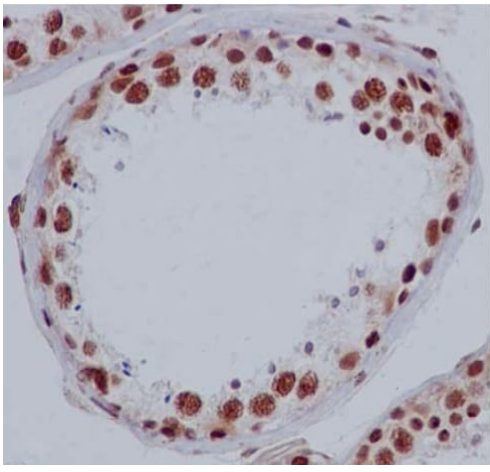
Western blot - Anti-ACF1 / BAZ1A antibody [EPR15826] - C-terminal (ab187670)

Anti-ACF1 / BAZ1A antibody [EPR15826] - C-terminal (ab187670) at 1/50000 dilution + Jurkat cell lysate at 20 µg

**Secondary**

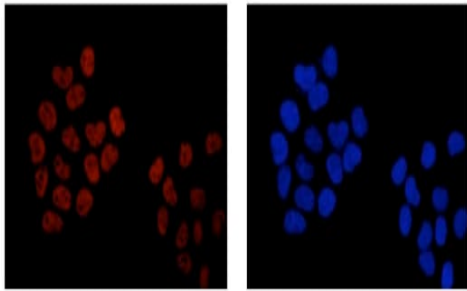
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 178 kDa



Immunohistochemical analysis of paraffin embedded Human testis tissue labeling ACF1 / BAZ1A with ab187670 at 1/100 dilution. Prediluted (Ready to use) HRP Polymer for Rabbit IgG was used as a secondary antibody. Antigen retrieval: Perform heat mediated antigen retrieval using EDTA Buffer, pH 9. Counter stain: Hematoxylin.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ACF1 / BAZ1A antibody [EPR15826] - C-terminal (ab187670)





Immunofluorescent analysis of 4% paraformaldehyde-fixed HeLa cells labeling ACF1 / BAZ1A with ab187670 at 1/250 (red) and DAPI staining (blue). Secondary antibody: goat anti rabbit IgG(Alexa Fluor® 555).

Immunocytochemistry/ Immunofluorescence - Anti-ACF1 / BAZ1A antibody [EPR15826] - C-terminal (ab187670)

### Why choose a recombinant antibody?

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**Research with confidence**  
Consistent and reproducible results
- 

**Long-term and scalable supply**  
Recombinant technology
- 

**Success from the first experiment**  
Confirmed specificity
- 

**Ethical standards compliant**  
Animal-free production

Anti-ACF1 / BAZ1A antibody [EPR15826] - C-terminal (ab187670)

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

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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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