

## Product datasheet

# Anti-Acid phosphatase/ACP1 antibody [EPR9839] ab166896

**KO VALIDATED** Recombinant RabMAB

[2 References](#) [5 Images](#)

### Overview

<b>Product name</b>	Anti-Acid phosphatase/ACP1 antibody [EPR9839]
<b>Description</b>	Rabbit monoclonal [EPR9839] to Acid phosphatase/ACP1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, IP <b>Unsuitable for:</b> ICC/IF or IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	Human placenta, HeLa and HepG2 lysates; permeabilized 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 -20°C.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal

**Clone number** EPR9839  
**Isotype** IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab166896 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
<b>Flow Cyt (Intra)</b>		1/10 - 1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
<b>WB</b>		1/1000 - 1/10000. Predicted molecular weight: 18 kDa.
<b>IP</b>		1/10 - 1/100.

**Application notes** Is unsuitable for ICC/IF or IHC-P.

## Target

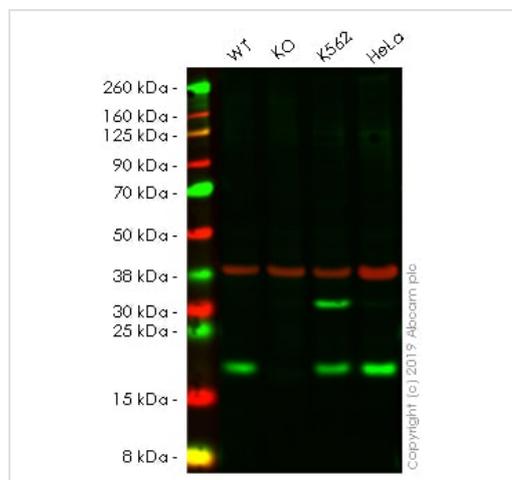
**Function** Acts on tyrosine phosphorylated proteins, low-MW aryl phosphates and natural and synthetic acyl phosphates. Isoform 3 does not possess phosphatase activity.

**Tissue specificity** T-lymphocytes express only isoform 2.

**Sequence similarities** Belongs to the low molecular weight phosphotyrosine protein phosphatase family.

**Cellular localization** Cytoplasm.

## Images



Western blot - Anti-Acid phosphatase/ACP1 antibody [EPR9839] (ab166896)

**All lanes** : Anti-Acid phosphatase/ACP1 antibody [EPR9839] (ab166896) at 1/1000 dilution

**Lane 1** : Wild-type HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate

**Lane 2** : ACP1 knockout HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate

**Lane 3** : K562 (Human chronic myelogenous leukemia lymphoblast cell line ) whole cell lysate

**Lane 4** : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

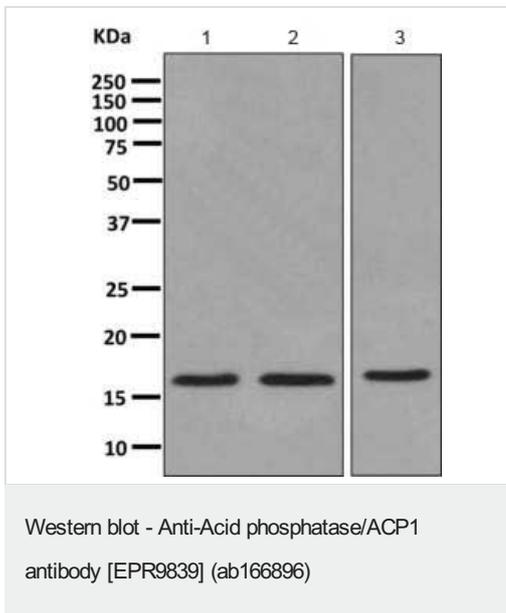
Performed under reducing conditions.

**Predicted band size:** 18 kDa

**Observed band size:** 18 kDa

**Lanes 1 - 4:** Merged signal (red and green). Green - ab166896 observed at 18 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab166896 was shown to recognize ACP1 (Acid phosphatase 1) in wild-type HEK-293 cells as signal was lost at the expected MW in ACP1 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and ACP1 knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% Milk. Ab166896 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



**All lanes :** Anti-Acid phosphatase/ACP1 antibody [EPR9839] (ab166896) at 1/1000 dilution

**Lane 1 :** Human placenta lysate

**Lane 2 :** HeLa cell lysate

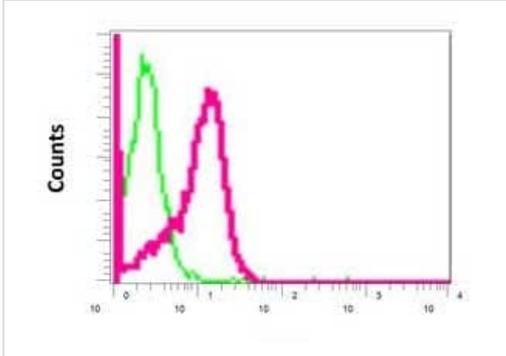
**Lane 3 :** HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

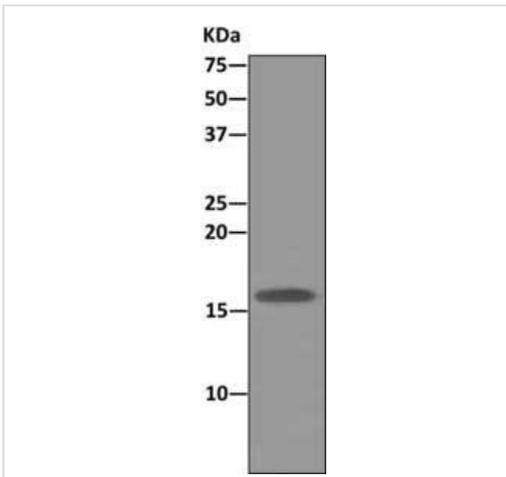
**All lanes :** goat anti-rabbit HRP antibody at 1/2000 dilution

**Predicted band size:** 18 kDa



Flow Cytometry (Intracellular) - Anti-Acid phosphatase/ACP1 antibody [EPR9839] (ab166896)

Intracellular flow cytometric analysis of permeabilized HeLa cells labeling Acid Phosphatase/ACP1 using ab166896 at 1/10 dilution (red) compared to staining with a rabbit IgG negative control antibody (green).



Immunoprecipitation - Anti-Acid phosphatase/ACP1 antibody [EPR9839] (ab166896)

Western blot analysis on immunoprecipitation pellet from HeLa cell lysate using ab166896 at 1/10 dilution, and HRP-conjugated anti-rabbit IgG, preferentially detecting the non-reduced form of rabbit IgG.

### Why choose a recombinant antibody?



**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-Acid phosphatase/ACP1 antibody [EPR9839]  
(ab166896)

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

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