

## Product datasheet

# Anti-Phospholipase A2 activator protein (PLAP) antibody [EPR5481] ab133589

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

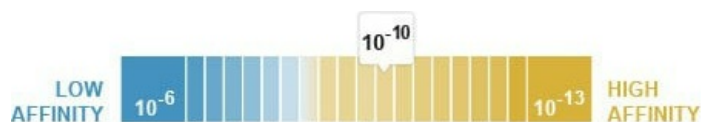
5 Images

### Overview

<b>Product name</b>	Anti-Phospholipase A2 activator protein (PLAP) antibody [EPR5481]
<b>Description</b>	Rabbit monoclonal [EPR5481] to Phospholipase A2 activator protein (PLAP)
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide within Human Phospholipase A2 activator protein (PLAP) aa 700-800 (internal sequence). The exact sequence is proprietary.
<b>Positive control</b>	WB: HeLa, MCF7, K562 and HepG2 whole cell lysate ( <b>ab7900</b> ). IHC-P: Human kidney tissue.
<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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 1.24 x 10 <sup>-10</sup> M



**Learn more about K<sub>D</sub>**

<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR5481
<b>Isotype</b>	IgG

**Applications**

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab133589 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

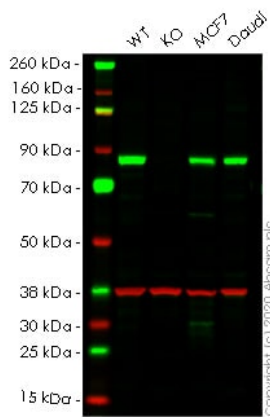
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 87 kDa.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

**Application notes** Is unsuitable for Flow Cyt.

**Target**

<b>Function</b>	Involved in the maintenance of ubiquitin levels.
<b>Sequence similarities</b>	Belongs to the WD repeat PLAP family. Contains 6 ARM repeats. Contains 1 PFU domain. Contains 1 PUL domain. Contains 7 WD repeats.
<b>Domain</b>	The PUL domain is composed of 6 armadillo-like repeats and mediates the interaction with VCP C-terminus. The PFU domain mediates interaction with ubiquitin.

**Images**



Western blot - Anti-Phospholipase A2 activator protein (PLAP) antibody [EPR5481] (ab133589)

**All lanes** : Anti-Phospholipase A2 activator protein (PLAP) antibody [EPR5481] (ab133589) at 1/1000 dilution

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

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

**Lane 3** : MCF7 cell lysate

**Lane 4** : Daudi cell lysate

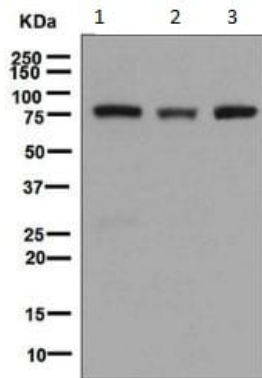
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 87 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab133589 observed at 87 kDa. Red - loading control **ab8245** observed at 37 kDa.

ab133589 Anti-Phospholipase A2 activator protein (PLAP) antibody [EPR5481] was shown to specifically react with PLAP in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265255** (knockout cell lysate **ab258121**) was used. Wild-type and PLAP knockout samples were subjected to SDS-PAGE. ab133589 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 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.



Western blot - Anti-Phospholipase A2 activator protein (PLAP) antibody [EPR5481] (ab133589)

**All lanes** : Anti-Phospholipase A2 activator protein (PLAP) antibody [EPR5481] (ab133589) at 1/1000 dilution

**Lane 1** : MCF7 cell lysate

**Lane 2** : K562 cell lysate

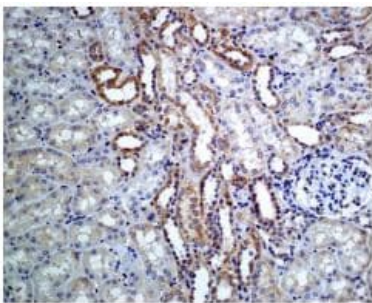
**Lane 3** : HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : HRP labelled Goat anti-Rabbit IgG at 1/2000 dilution

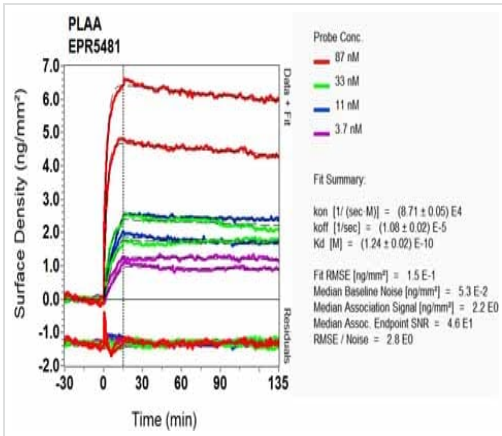
**Predicted band size:** 87 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Phospholipase A2 activator protein (PLAP) antibody [EPR5481] (ab133589)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labelling Phospholipase A2 activator protein (PLAP) with ab133589 at 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



OI-RD Scanning - Anti-Phospholipase A2 activator protein (PLAP) antibody [EPR5481] (ab133589)

Equilibrium disassociation constant ( $K_D$ )

Learn more about  $K_D$

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

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-Phospholipase A2 activator protein (PLAP) antibody [EPR5481] (ab133589)

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

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