

Product datasheet

Anti-PAP antibody [EPR4067] ab109004

Recombinant **RabMAb**

★★★★★ [1 Abreviews](#) [3 References](#) [10 Images](#)

Overview

Product name	Anti-PAP antibody [EPR4067]
Description	Rabbit monoclonal [EPR4067] to PAP
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human prostate lysates. IHC-P: human prostate and adenocarcinoma tissue. ICC/IF: PC-3 cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR4067

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab109004 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: 45 kDa.
IHC-P	★★★★★ (1)	1/40000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Heat up to 98 °C, below boiling, and then let cool for 10-20 min. See IHC antigen retrieval protocols . For unpurified use at 1/250 - 1/500
ICC/IF		1/50 - 1/100.

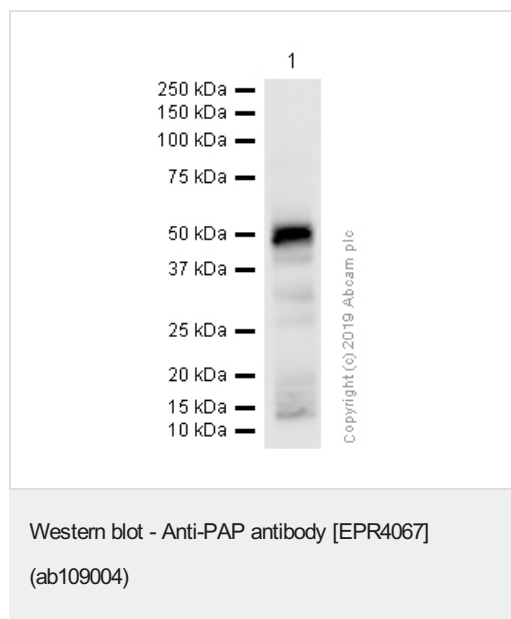
Application notes Is unsuitable for Flow Cyt or IP.

Target

Sequence similarities Belongs to the histidine acid phosphatase family.

Cellular localization Secreted and Lysosome membrane. Predominantly localized in the plasma membrane but also detected in intracellular vesicles.

Images



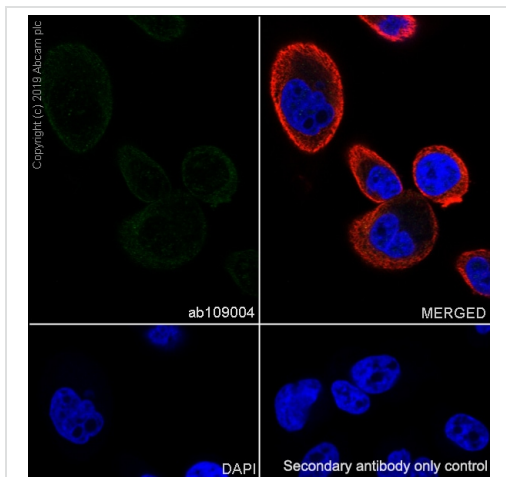
Anti-PAP antibody [EPR4067] (ab109004) at 1/1000 dilution
(Purified) + Human prostate lysates at 15 µg

Secondary

Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

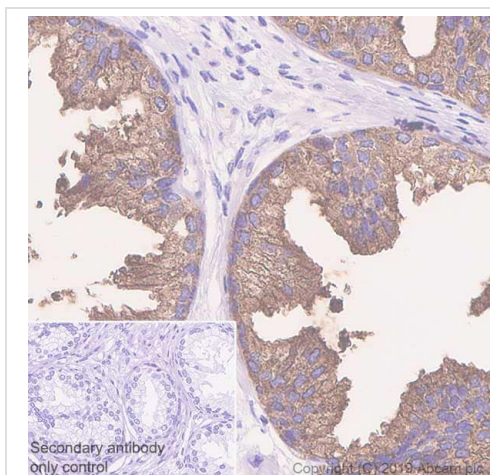
Predicted band size: 45 kDa

Observed band size: 50 kDa



Immunocytochemistry/ Immunofluorescence - Anti-PAP antibody [EPR4067] (ab109004)

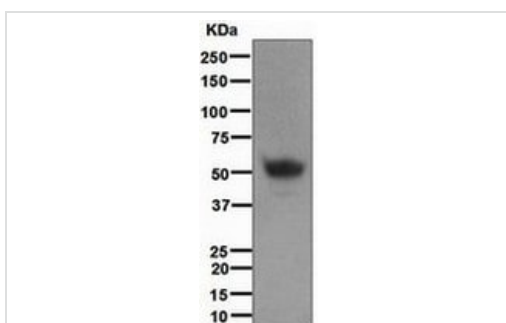
Immunocytochemistry/ Immunofluorescence analysis of PC-3 (Human prostate adenocarcinoma epithelial cell) cells labeling PAP with purified ab109004 at 1/50 dilution (1.92 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAP antibody [EPR4067] (ab109004)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human prostate tissue sections labeling PAP with purified ab109004 at 1/40,000 dilution (0.0024 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody.

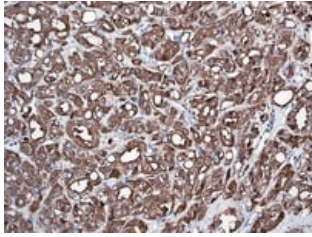
Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-PAP antibody [EPR4067] (ab109004)

Anti-PAP antibody [EPR4067] (ab109004) at 1/1000 dilution ((unpurified)) + Prostate cancer lysate at 10 µg

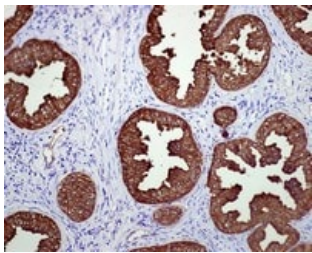
Predicted band size: 45 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAP antibody [EPR4067] (ab109004)

Unpurified ab109004 at 1/250 dilution, staining PAP in Human prostatic adenocarcinoma by Immunohistochemistry, Paraffin-embedded tissue.

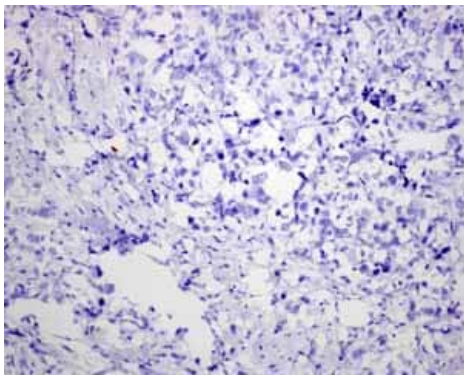
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAP antibody [EPR4067] (ab109004)

Unpurified ab109004 at 1/250 dilution, staining PAP in Human prostatic tissue by Immunohistochemistry, Paraffin-embedded tissue.

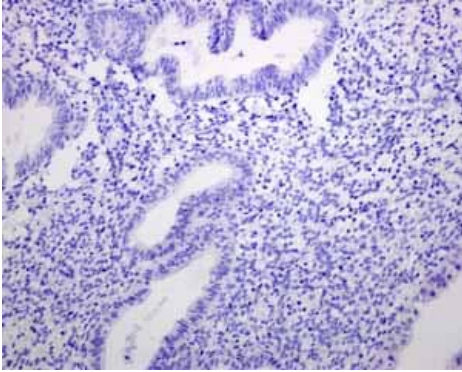
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAP antibody [EPR4067] (ab109004)

Unpurified ab109004 showing negative staining in Breast carcinoma tissue.

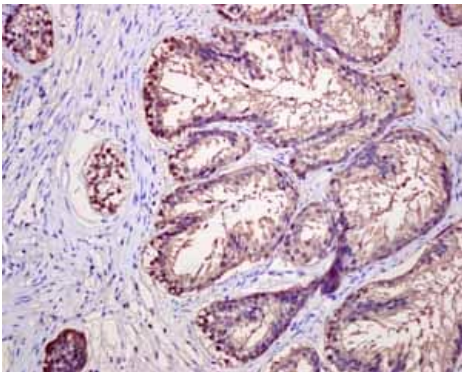
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAP antibody [EPR4067] (ab109004)

Unpurified ab109004 showing negative staining in Normal uterus tissue.

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







Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PAP antibody [EPR4067] (ab109004)

Unpurified ab109004 showing positive staining in Prostate hyperplasia tissue.

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

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-PAP antibody [EPR4067] (ab109004)

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