

## Product datasheet

# Anti-uPA Receptor/U-PAR antibody [EPR20191] ab218106

Recombinant RabMAb

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

### Overview

<b>Product name</b>	Anti-uPA Receptor/U-PAR antibody [EPR20191]
<b>Description</b>	Rabbit monoclonal [EPR20191] to uPA Receptor/U-PAR
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment within Human uPA Receptor/U-PAR aa 1 to the C-terminus. The exact sequence is proprietary. Database link: <a href="#">Q03405</a>
<b>Positive control</b>	WB: U937 whole cell lysate treated with 200nM PMA (Phorbol-12-myristate-13-acetate) for 72 hours. IHC-P: Human ovarian cancer, lung cancer and artery tissues.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <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> For more information <a href="#">see here</a> .  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> .

### 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>	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

Clone number                      EPR20191

Isotype                                IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab218106** 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. Detects a band of approximately 35-65 kDa (predicted molecular weight: 37 kDa).
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

## Target

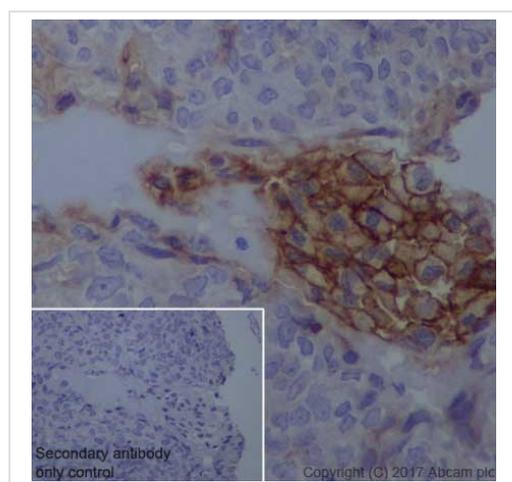
**Function**                                      Acts as a receptor for urokinase plasminogen activator. Plays a role in localizing and promoting plasmin formation. Mediates the proteolysis-independent signal transduction activation effects of U-PA. It is subject to negative-feedback regulation by U-PA which cleaves it into an inactive form.

**Tissue specificity**                              Expressed in neurons of the rolandic area of the brain (at protein level). Expressed in the brain.

**Sequence similarities**                              Contains 3 UPAR/Ly6 domains.

**Cellular localization**                              Secreted and Cell membrane.

## Images



Immunohistochemical analysis of paraffin-embedded human ovarian cancer tissue labeling uPA Receptor/U-PAR with ab218106 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

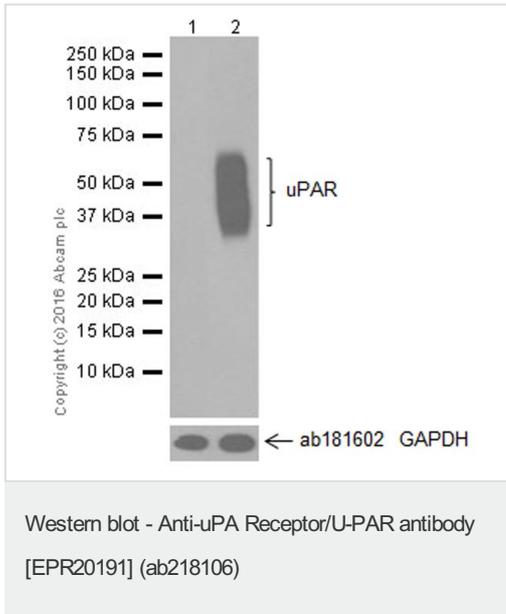
Membranous staining on dissociative cancer cells in blood vessel of human ovarian cancer is observed [PMID: 25120753].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-uPA Receptor/U-PAR antibody [EPR20191] (ab218106)



**All lanes :** Anti-uPA Receptor/U-PAR antibody [EPR20191] (ab218106) at 1/1000 dilution

**Lane 1 :** Untreated U937 (Human histiocytic lymphoma cell line) whole cell lysate

**Lane 2 :** U937 whole cell lysate treated with 200nM PMA (Phorbol-12-myristate-13-acetate) for 72 hours

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

**Predicted band size:** 37 kDa

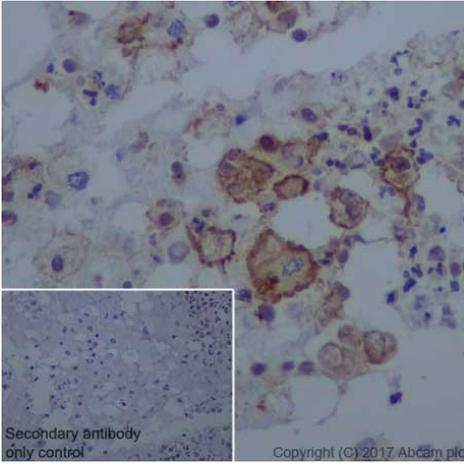
**Observed band size:** 35-65 kDa

[why is the actual band size different from the predicted?](#)

**Exposure time:** 15 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.

PMA-stimulated U937 cells express uPA Receptor/U-PAR in the range of 35kDa-60kDa. Non-stimulated U937 cells are negative. The deglycosylated form of the protein is at 35 kDa and the highly glycosylated protein is at 60kDa (PMID:24999729).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-uPA Receptor/U-PAR antibody [EPR20191] (ab218106)

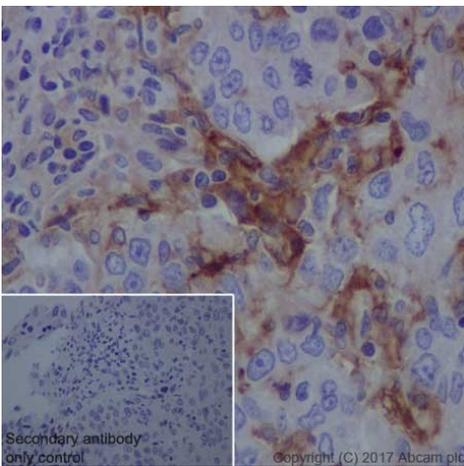
Immunohistochemical analysis of paraffin-embedded human ovarian cancer tissue labeling uPA Receptor/U-PAR with ab218106 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Membranous staining on the macrophages of human ovarian cancer is observed [PMID: 25575713].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-uPA Receptor/U-PAR antibody [EPR20191] (ab218106)

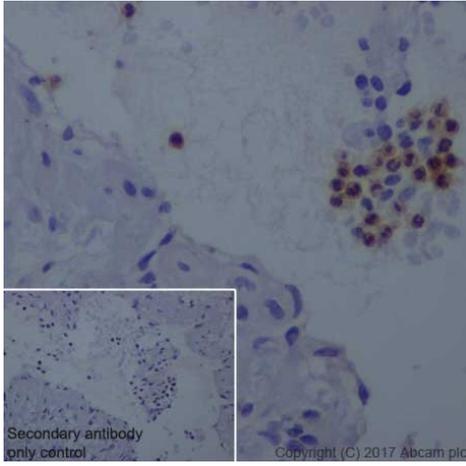
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue labeling uPA Receptor/U-PAR with ab218106 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Cytoplasmic staining on the stromal cells of human lung cancer is observed [PMID: 25575713].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-uPA Receptor/U-PAR antibody [EPR20191] (ab218106)

Immunohistochemical analysis of paraffin-embedded human artery tissue labeling uPA Receptor/U-PAR with ab218106 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Positive staining on the neutrophils in human artery is observed [PMID: 25575713].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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

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