

## Product datasheet

# Anti-USP4 antibody [EPR13846] ab181105

Recombinant RabMAb

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### Overview

<b>Product name</b>	Anti-USP4 antibody [EPR13846]
<b>Description</b>	Rabbit monoclonal [EPR13846] to USP4
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, 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>	HuT-78 and THP1 cell lysates,
<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>	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR13846
<b>Isotype</b>	IgG

### Applications

## Applications

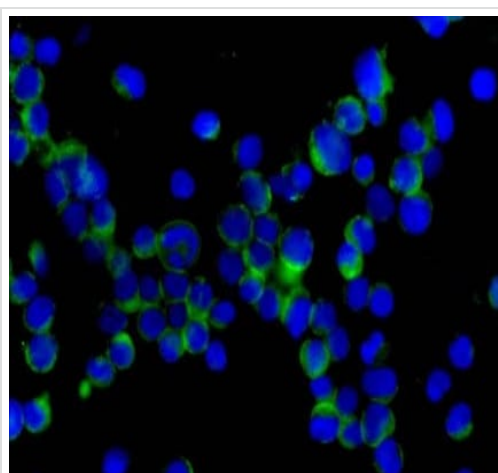
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab181105 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 109 kDa.
ICC/IF		1/250 - 1/500.

## Target

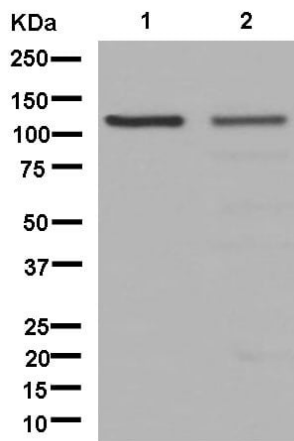
<b>Function</b>	Hydrolase that deubiquitinates target proteins such as the receptor ADORA2A and TRIM21. Deubiquitination of ADORA2A increases the amount of functional receptor at the cell surface. Plays a role in the regulation of quality control in the ER.
<b>Tissue specificity</b>	Overexpressed in small cell tumors and adenocarcinomas of the lung compared to wild-type lung (at protein level). Expressed in the hippocampal neurons.
<b>Sequence similarities</b>	Belongs to the peptidase C19 family. USP4 subfamily. Contains 1 DUSP domain.
<b>Post-translational modifications</b>	Monoubiquitinated by TRIM21. Ubiquitination does not lead to its proteasomal degradation. Autodeubiquitinated.
<b>Cellular localization</b>	Cytoplasm. Nucleus. Shuttles between the nucleus and cytoplasm. Exported to the cytoplasm in a CRM1-dependent manner and recycled back to the nucleus via the importin alpha/beta heterodimeric import receptor. The relative amounts found in the nucleus and cytoplasm vary according to the cell type.

## Images



Immunofluorescent staining of -20 $\mu$ l Acetone-fixed THP1 cells labeling USP4 using ab181105 at a 1/250 dilution, followed by Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody at a 1/200 dilution and counter stained with DAPI.

Immunocytochemistry/ Immunofluorescence - Anti-USP4 antibody [EPR13846] (ab181105)



Western blot - Anti-USP4 antibody [EPR13846] (ab181105)

**All lanes** : Anti-USP4 antibody [EPR13846] (ab181105) at 1/1000 dilution

**Lane 1** : HuT-78 cell lysate

**Lane 2** : THP1 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:** 109 kDa

Why choose a recombinant antibody?

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

Anti-USP4 antibody [EPR13846] (ab181105)

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

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