

## Product datasheet

### Anti-UFSP2 antibody [EPR13424] $\alpha$ b185965


KO **VALIDATED**

Recombinant

RabMAb<sup>®</sup>

[3 References](#) [7 Images](#)

#### Overview

<b>Product name</b>	Anti-UFSP2 antibody [EPR13424]
<b>Description</b>	Rabbit monoclonal [EPR13424] to UFSP2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human fetal kidney, fetal heart, pancreas and HeLa cell lysates; HEK293T and HeLa cell lysates. IHC-P: Human stomach and kidney clear cell carcinoma tissues. ICC/IF: 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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR13424

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab185965 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. Detects a band of approximately 53 kDa (predicted molecular weight: 53 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/100.
IP		1/40 - 1/60.

## Target

### Function

Thiol protease which recognizes and hydrolyzes the peptide bond at the C-terminal Gly of UFM1, a ubiquitin-like modifier protein bound to a number of target proteins. Does not hydrolyze SUMO1 or ISG15 ubiquitin-like proteins. Through TRIP4 deufmylation may regulate intracellular nuclear receptors transactivation and thereby regulate cell proliferation and differentiation.

### Involvement in disease

Beukes familial hip dysplasia

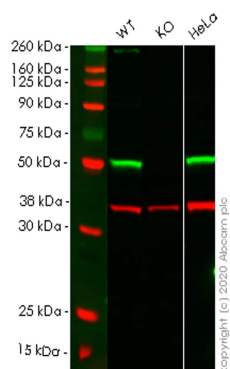
### Sequence similarities

Belongs to the peptidase C78 family.

### Cellular localization

Cytoplasm. Endoplasmic reticulum. Nucleus.

## Images



Western blot - Anti-UFSP2 antibody [EPR13424]  
(ab185965)

**All lanes :** Anti-UFSP2 antibody [EPR13424] (ab185965) at 1/1000 dilution

**Lane 1 :** Wild-type HEK293T cell lysate

**Lane 2 :** UFSP2 knockout HEK293T cell lysate

**Lane 3 :** HeLa cell lysate

Lysates/proteins at 20 µg per lane.

## Secondary

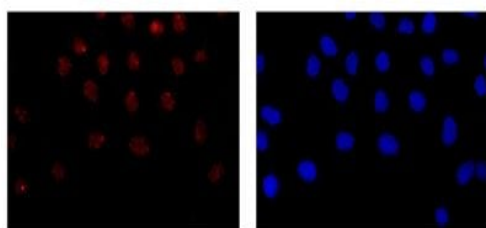
**All lanes :** Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

**Predicted band size:** 53 kDa

**Observed band size:** 53 kDa

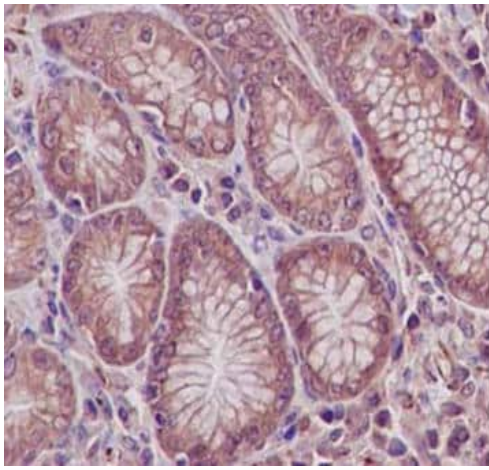
**Lanes 1-3:** Merged signal (red and green). Green - ab185965 observed at 53 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

ab185965 Anti-UFSP2 antibody [EPR13424] was shown to specifically react with UFSP2 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line [ab266368](#) (knockout cell lysate [ab257782](#)) was used. Wild-type and UFSP2 knockout samples were subjected to SDS-PAGE. ab185965 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated at room temperature for 2.5 hours 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.



Immunocytochemistry/ Immunofluorescence - Anti-UFSP2 antibody [EPR13424] (ab185965)

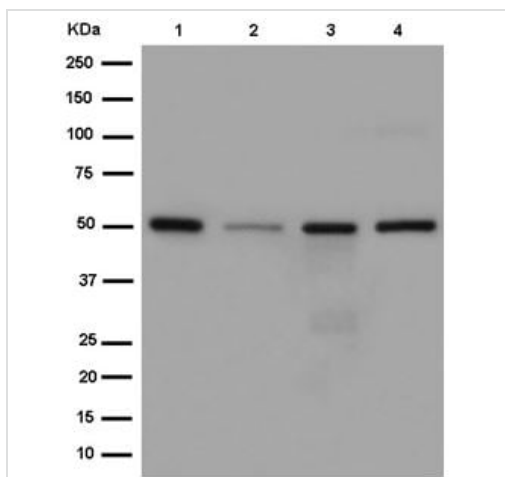
Immunofluorescent analysis of HeLa cells (-20°C acetone-fixed) labeling UFSP2 with ab185965 at 1/100 dilution followed by Goat anti rabbit IgG (AlexaFluor® 555) secondary at 1/200 dilution and counter-stained with DAPI (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-UFSP2 antibody [EPR13424] (ab185965)

Immunohistochemical analysis of paraffin-embedded Human stomach tissue labeling UFSP2 with ab185965 at 1/100 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Western blot - Anti-UFSP2 antibody [EPR13424] (ab185965)

**All lanes :** Anti-UFSP2 antibody [EPR13424] (ab185965) at 1/10000 dilution

**Lane 1 :** Human fetal kidney lysate

**Lane 2 :** Human fetal heart lysate

**Lane 3 :** Human pancreas lysate

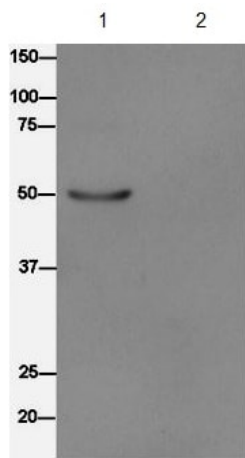
**Lane 4 :** HeLa cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

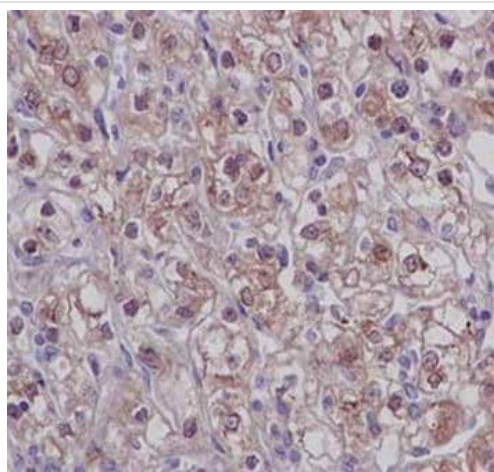
**All lanes :** Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

**Predicted band size:** 53 kDa



Immunoprecipitation - Anti-UFSP2 antibody  
[EPR13424] (ab185965)

Western blot analysis of immunoprecipitation pellet from Human fetal kidney lysate immunoprecipitated using ab185965 at 1/50 dilution (lane 1) or PBS control (lane 2).  
Secondary: Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1500 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-UFSP2 antibody  
[EPR13424] (ab185965)

Immunohistochemical analysis of paraffin-embedded Human kidney clear cell carcinoma tissue labeling UFSP2 with ab185965 at 1/100 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin.  
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

### 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-UFSP2 antibody [EPR13424] (ab185965)

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

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- Extensive multi-media technical resources to help you
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