

## Product datasheet

### Anti-HSPA4 antibody [EPR14166] ab185962

Recombinant RabMAb

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

#### Overview

<b>Product name</b>	Anti-HSPA4 antibody [EPR14166]
<b>Description</b>	Rabbit monoclonal [EPR14166] to HSPA4
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), IHC-P, ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	HeLa and HepG2 cells and cell lysates; K562, Human cerebellum, Mouse heart, Rat brain and Rat heart lysates; Human brain 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>

#### 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>	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR14166
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab185962 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
Flow Cyt (Intra)		1/200. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
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		1/250.
WB		1/1000 - 1/10000. Detects a band of approximately 110 kDa (predicted molecular weight: 94 kDa).

## Target

### Sequence similarities

Belongs to the heat shock protein 70 family.

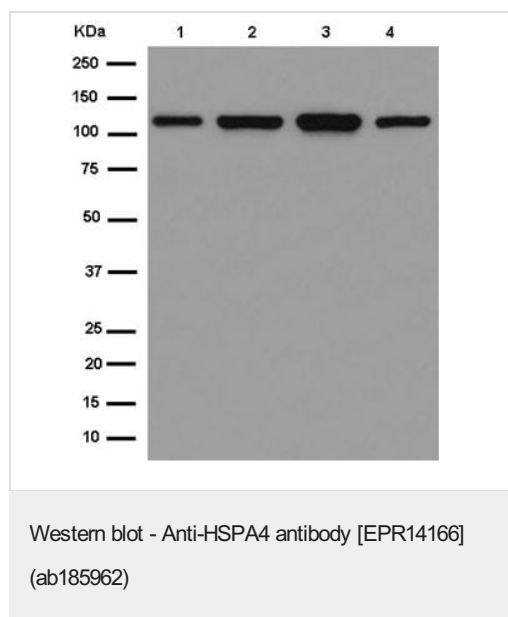
### Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

### Cellular localization

Cytoplasm.

## Images



**All lanes :** Anti-HSPA4 antibody [EPR14166] (ab185962) at 1/10000 dilution

**Lane 1 :** Human cerebellum lysate

**Lane 2 :** HepG2 cell lysate

**Lane 3 :** K562 cell lysate

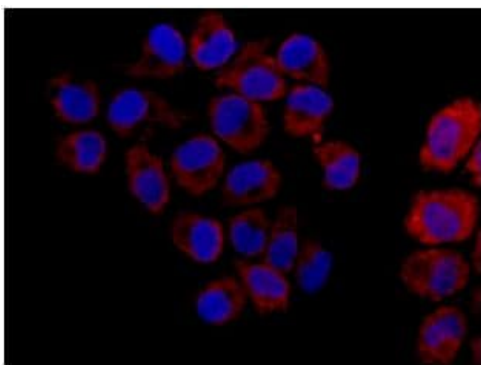
**Lane 4 :** HeLa cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

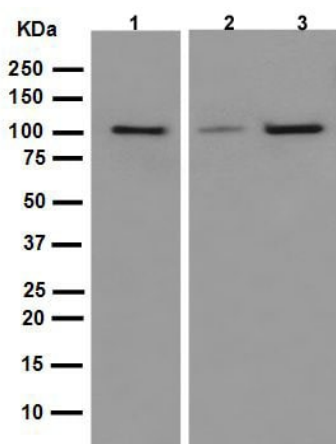
**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 94 kDa



Immunocytochemistry/ Immunofluorescence - Anti-HSPA4 antibody [EPR14166] (ab185962)

Immunofluorescence analysis of -20°C acetone-fixed HeLa cells labeling HSPA4 with ab185962 at 1/250 dilution. Goat anti-rabbit IgG (Alexa Fluor® 555) at 1/200 dilution was used as the secondary antibody (red). Slide is counter stained with Dapi (blue).



Western blot - Anti-HSPA4 antibody [EPR14166] (ab185962)

**All lanes :** Anti-HSPA4 antibody [EPR14166] (ab185962) at 1/1000 dilution

**Lane 1 :** Mouse heart tissue lysate

**Lane 2 :** Rat brain tissue lysate

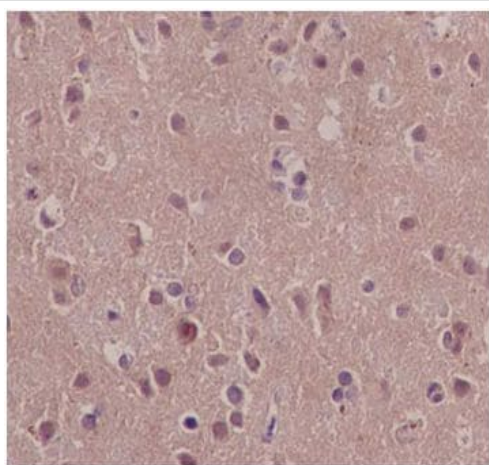
**Lane 3 :** Rat heart tissue lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

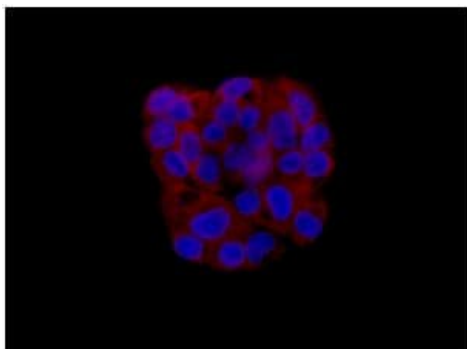
**Predicted band size:** 94 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HSPA4 antibody [EPR14166] (ab185962)

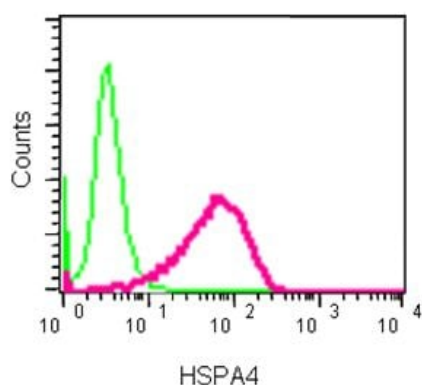
Immunohistochemical analysis of paraffin-embedded Human brain tissue labeling HSPA4 with ab185962 at 1/100 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin.

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



Immunocytochemistry/ Immunofluorescence - Anti-HSPA4 antibody [EPR14166] (ab185962)

Immunofluorescence analysis of 4% paraformaldehyde-fixed HepG2 cells labeling HSPA4 with ab185962 at 1/250 dilution. Goat anti-rabbit IgG (Alexa Fluor® 555) at 1/200 dilution was used as the secondary antibody (red). Slide is counter stained with Dapi (blue).



Flow Cytometry (Intracellular) - Anti-HSPA4 antibody [EPR14166] (ab185962)

Intracellular flow cytometric analysis of 2% paraformaldehyde fixed HeLa cells labeling HSPA4 with ab185962 at 1/200 dilution (red) compared with a rabbit monoclonal IgG isotype control (green). Goat anti rabbit IgG (FITC) at 1/150 dilution was used as the secondary antibody.

### 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-HSPA4 antibody [EPR14166] (ab185962)

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

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