

Product datasheet

Anti-HSPA12A antibody [EPR16763] ab200838

Recombinant RabMAb

12 Images

Overview

<b>Product name</b>	Anti-HSPA12A antibody [EPR16763]
<b>Description</b>	Rabbit monoclonal [EPR16763] to HSPA12A
<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> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HEK293 and U-87 MG cell lysates; Human fetal brain, Human fetal kidney, mouse spleen and rat heart lysates. IHC-P: Human cerebral cortex, Human kidney, mouse cerebral cortex and rat cerebral cortex tissues. ICC/IF: HEK293 cells. IP: Human fetal brain whole cell lysate.
<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: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR16763

Isotype

IgG

## Applications

### The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab200838 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 75 kDa (predicted molecular weight: 75 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/250.
IP		1/50.

## Target

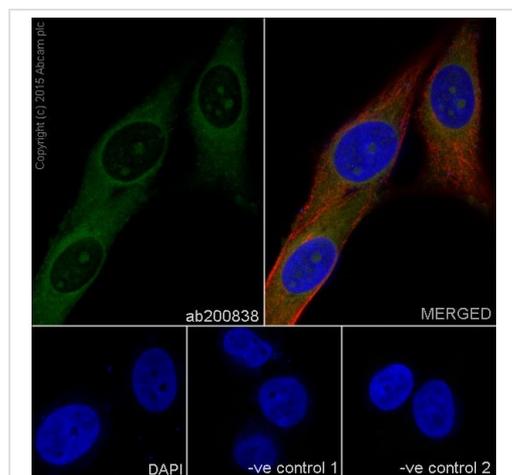
### Tissue specificity

Widely expressed with highest levels in brain, kidney and muscle.

### Sequence similarities

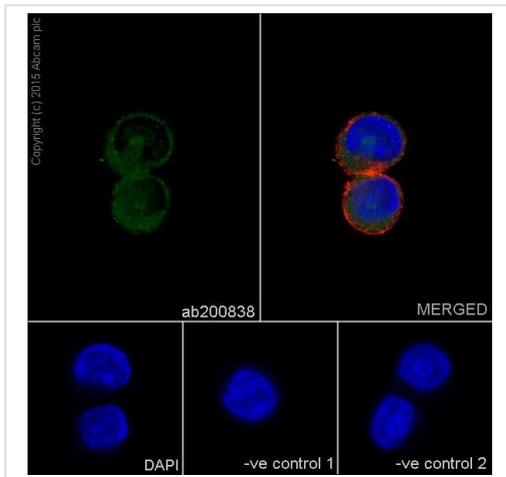
Belongs to the heat shock protein 70 family.

## Images



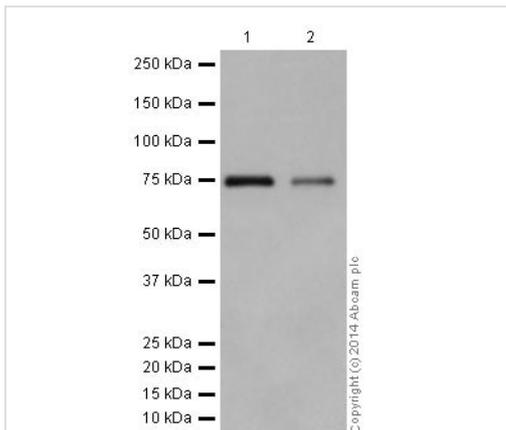
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U87-MG (human glioblastoma) cells labeling HSPA12A with ab200838 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/500 dilution (green). Cytoplasmic staining on U87-MG cell line is observed. The nuclear counterstain is DAPI (blue). Tubulin is detected with [ab7291](#) (anti-Tubulin mouse mAb) at 1/1000 dilution and [ab150120](#) (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).

Immunocytochemistry/ Immunofluorescence - Anti-HSPA12A antibody [EPR16763] (ab200838)



Immunocytochemistry/ Immunofluorescence - Anti-HSPA12A antibody [EPR16763] (ab200838)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HEK293 (Human embryonic kidney) cells labeling HSPA12A with ab200838 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/500 dilution (green). Cytoplasmic staining on HEK293 cell line is observed. The nuclear counterstain is DAPI (blue). Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).



Western blot - Anti-HSPA12A antibody [EPR16763] (ab200838)

**All lanes** : Anti-HSPA12A antibody [EPR16763] (ab200838) at 1/1000 dilution

**Lane 1** : HEK293 (Human embryonic kidney) cell lysate

**Lane 2** : U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) cell lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

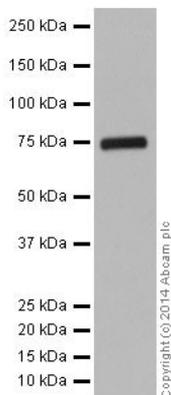
**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 75 kDa

**Observed band size:** 75 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-HSPA12A antibody [EPR16763]  
(ab200838)

Anti-HSPA12A antibody [EPR16763] (ab200838) at 1/10000  
dilution + Human fetal brain lysate at 20 µg

**Secondary**

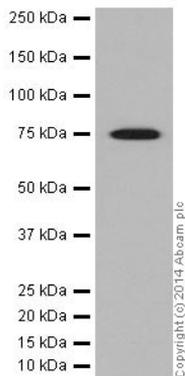
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000  
dilution

**Predicted band size:** 75 kDa

**Observed band size:** 75 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-HSPA12A antibody [EPR16763]  
(ab200838)

Anti-HSPA12A antibody [EPR16763] (ab200838) at 1/1000  
dilution + Human fetal kidney lysate at 10 µg

**Secondary**

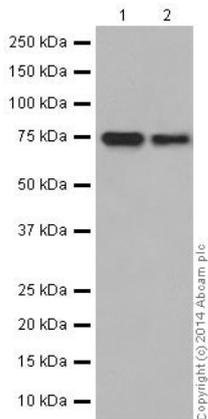
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at  
1/1000 dilution

**Predicted band size:** 75 kDa

**Observed band size:** 75 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-HSPA12A antibody [EPR16763] (ab200838)

**All lanes :** Anti-HSPA12A antibody [EPR16763] (ab200838) at 1/1000 dilution

**Lane 1 :** Mouse spleen lysate

**Lane 2 :** Rat heart lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

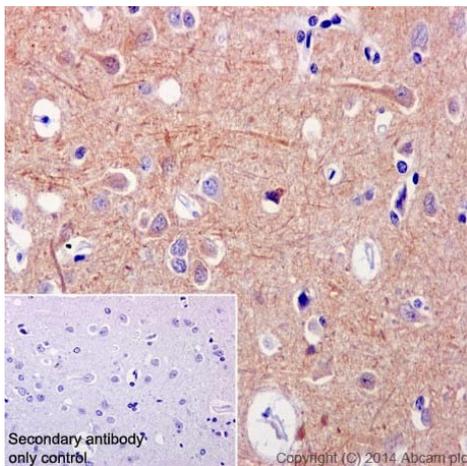
**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 75 kDa

**Observed band size:** 75 kDa

**Exposure time:** 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.

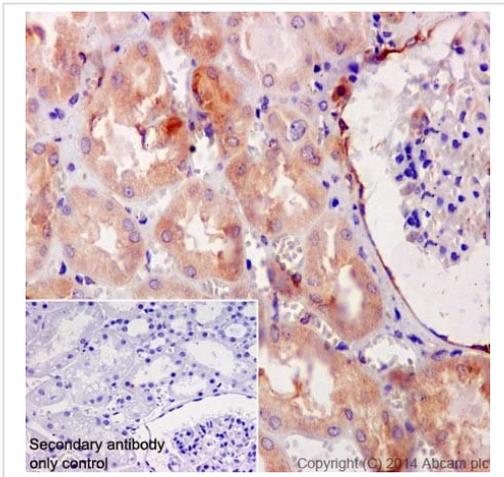


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HSPA12A antibody [EPR16763] (ab200838)

Immunohistochemical analysis of paraffin-embedded Human cerebral cortex tissue labeling HSPA12A with ab200838 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasmic staining on Human cerebral cortex tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

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

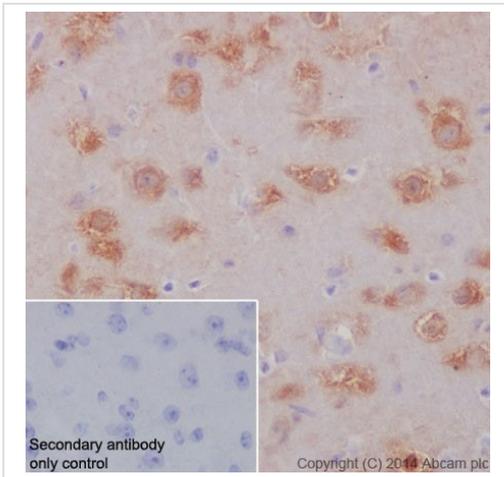


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HSPA12A antibody [EPR16763] (ab200838)

Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling HSPA12A with ab200838 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasmic staining on Human kidney tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

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

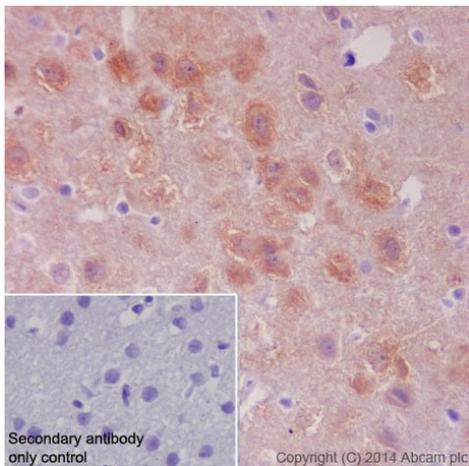


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HSPA12A antibody [EPR16763] (ab200838)

Immunohistochemical analysis of paraffin-embedded Mouse cerebral cortex tissue labeling HSPA12A with ab200838 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasmic staining on mouse cerebral cortex tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

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

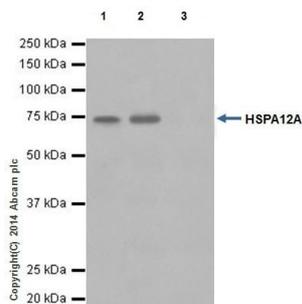


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HSPA12A antibody [EPR16763] (ab200838)

Immunohistochemical analysis of paraffin-embedded Rat cerebral cortex tissue labeling HSPA12A with ab200838 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasmic staining on rat cerebral cortex tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

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



Immunoprecipitation - Anti-HSPA12A antibody [EPR16763] (ab200838)

HSPA12A was immunoprecipitated from 1mg of Human fetal brain whole cell lysate with ab200838 at 1/50 dilution. Western blot was performed from the immunoprecipitate using ab200838 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

Lane 1: Human fetal brain whole cell lysate 10 µg (Input). Lane 2: ab200838 IP in Human fetal brain whole cell lysate. Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab200838 in Human fetal brain whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDN/TBST.

Exposure time: 3 minutes.

### 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-HSPA12A antibody [EPR16763] (ab200838)

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

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- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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