

### Anti-Hsp70 antibody [3A3] - BSA and Azide free ab252240

重组

#### 9 图像

#### 概述

产品名称	Anti-Hsp70抗体[3A3] - BSA and Azide free
描述	小鼠单克隆抗体[3A3] to Hsp70 - BSA and Azide free
宿主	Mouse
特异性	This antibody detects several members of the heat shock protein 70 kDa (Hsp 70) gene family including Hsp 70, Hsc 70, p75, and following heat shock, Hsp 72 from yeast, Drosophila, fish, mouse, avian, amphibian and human samples.
经测试应用	适用于: ICC/IF, WB, IHC-P
种属反应性	与反应: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa, K562, Jurkat, 293T, A431, A549, F9, RAW264.7 and C6, PC-12 lysates. IHC-P: Human cerebrum and lung carcinoma, Mouse testis, Rat cerebrum tissues. ICC: HeLa and NIH/3T3, PC-12 cells.
常规说明	<p>ab252240 is the carrier-free version of <a href="#">ab5439</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <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>

## 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	Constituent: 100% PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	3A3
同种型	IgG1

## 应用

**The Abpromise guarantee**      **Abpromise™** 承诺保证使用ab252240于以下的经测试应用

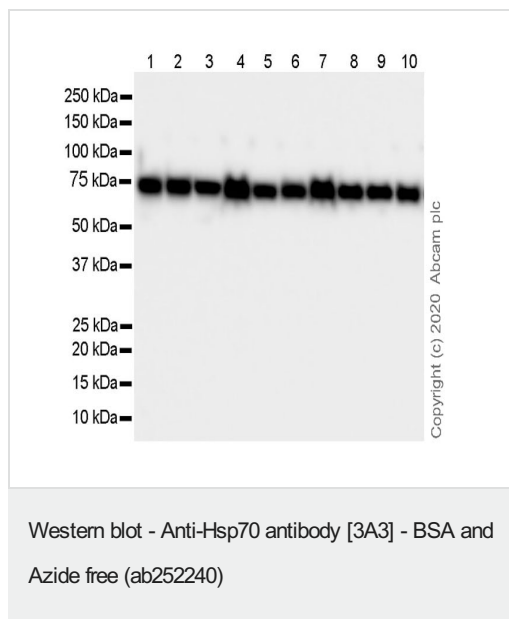
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 70 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

## 靶标

相关性	Function: In cooperation with other chaperones, the Hsp70 family stabilize preexistent proteins against aggregation and mediate the folding of newly translated polypeptides in the cytosol as well as within organelles. These chaperones participate in all these processes through their ability to recognize nonnative conformations of other proteins. They bind extended peptide segments with a net hydrophobic character exposed by polypeptides during translation and membrane translocation, or following stress-induced damage. In case of rotavirus A infection, serves as a post-attachment receptor for the virus to facilitate entry into the cell. Tissue specificity: HSPA1B is testis-specific.
细胞定位	Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

## 图片



**All lanes** : Anti-Hsp70 antibody [3A3] ([ab5439](#)) at 1/1000 dilution

**Lane 1** : HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate

**Lane 2** : K562 (human chronic myelogenous leukemia lymphoblast), whole cell lysate

**Lane 3** : Jurkat (human T cell leukemia T lymphocyte), whole cell lysate

**Lane 4** : 293T (human embryonic kidney epithelial cell), whole cell lysate

**Lane 5** : A431 (human epidermoid carcinoma epithelial cell), whole cell lysate

**Lane 6** : A549 (human lung carcinoma epithelial cell), whole cell lysate

**Lane 7** : F9 (mouse embryonal carcinoma epithelial cell), whole cell lysate

**Lane 8** : RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate

**Lane 9** : C6 (rat glial tumor glial cell), whole cell lysate

**Lane 10** : PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/10000 dilution

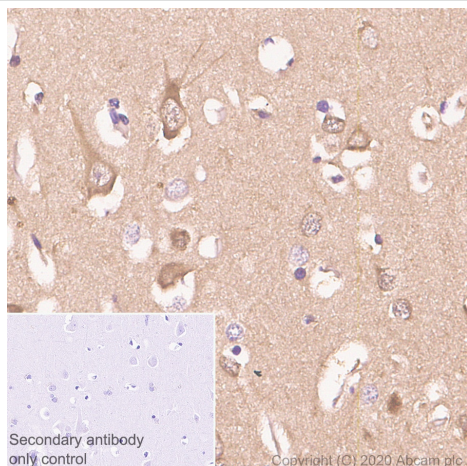
**Predicted band size:** 70 kDa

**Exposure time:** 1 second

This data was developed using [ab5439](#), the same antibody clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Exposure time: 1 second



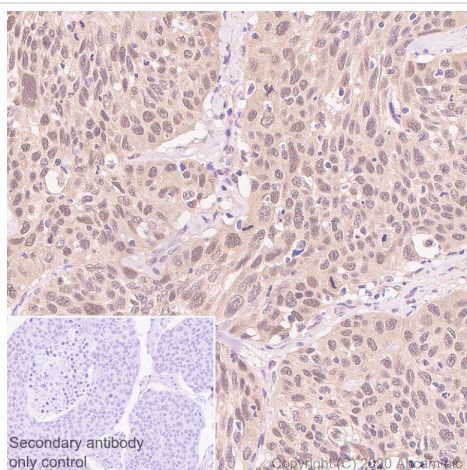
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp70 antibody [3A3] - BSA and Azide free (ab252240)

This data was developed using [ab5439](#) the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labeling Hsp70 with [ab5439](#) at 1/2000 (0.519 µg/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on human cerebrum. The section was incubated with [ab5439](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



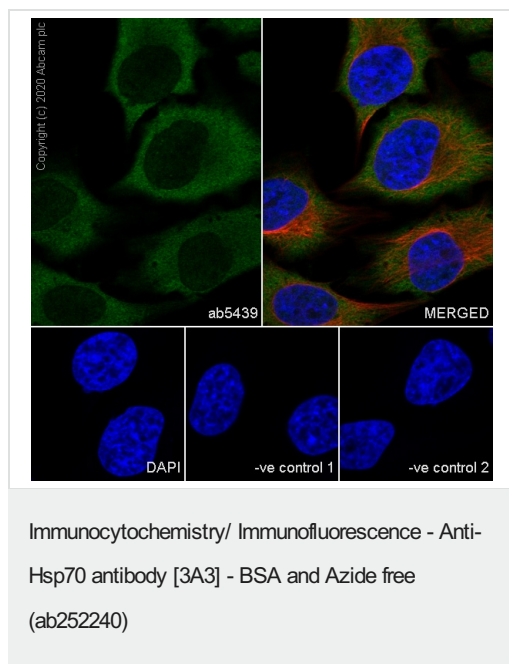
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Immunohistochemical analysis of paraffin-embedded Human lung carcinoma tissue labeling Hsp70 with [ab5439](#) at 1/2000 (0.519 µg/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on human lung carcinoma. The section was incubated with [ab5439](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

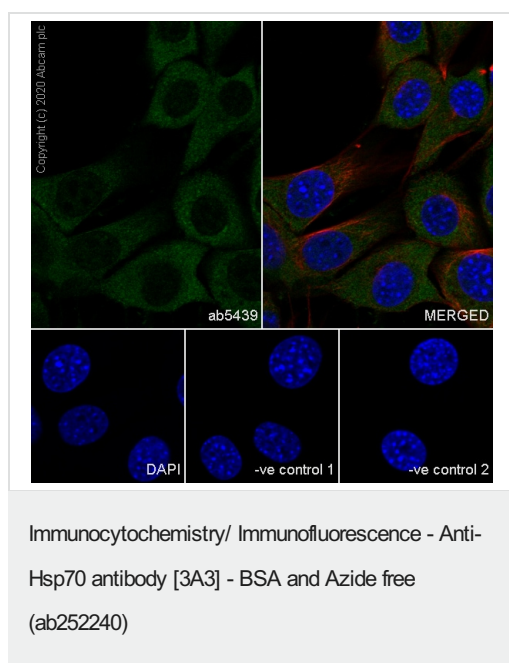
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



This data was developed using [ab5439](#) the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HeLa cells labelling Hsp70 with [ab5439](#) at 1/50 (20.76 µg/ml) dilution, followed by [ab150113](#) Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic and weak nuclear staining in HeLa cells [ab179513](#) Anti-beta Tubulin rabbit monoclonal antibody was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is [ab150113](#) Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.

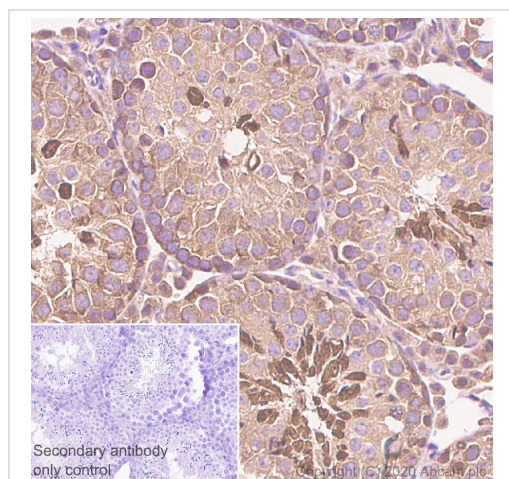


This data was developed using [ab5439](#) the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized NIH/3T3 cells labelling Hsp70 with [ab5439](#) at 1/50 (20.76 µg/ml) dilution, followed by [ab150113](#) Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic and weak nuclear staining in NIH/3T3 cells [ab179513](#) Anti-beta Tubulin rabbit monoclonal antibody was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

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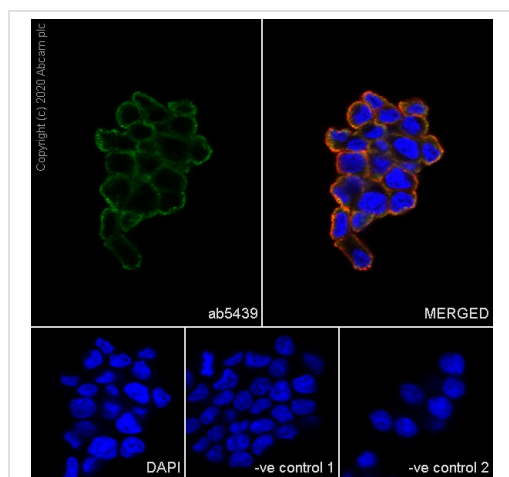
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp70 antibody [3A3] - BSA and Azide free (ab252240)

This data was developed using [ab5439](#) the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labeling Hsp70 with [ab5439](#) at 1/2000 (0.519 µg/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on mouse testis. The section was incubated with [ab5439](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

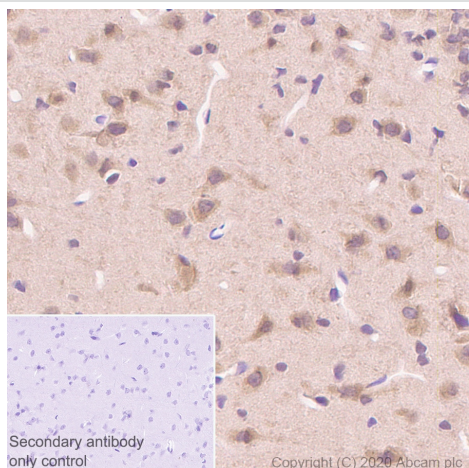


Immunocytochemistry/ Immunofluorescence - Anti-Hsp70 antibody [3A3] - BSA and Azide free (ab252240)

This data was developed using [ab5439](#) the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized PC-12 cells labelling Hsp70 with [ab5439](#) at 1/50 (20.76 µg/ml) dilution, followed by [ab150113](#) Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in PC-12 cells [ab179513](#) Anti-beta Tubulin rabbit monoclonal antibody was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is [ab150113](#) Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp70 antibody [3A3] - BSA and Azide free (ab252240)

This data was developed using **ab5439** the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labeling Hsp70 with **ab5439** at 1/2000 (0.519 µg/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on rat cerebrum. The section was incubated with **ab5439** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

### 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-Hsp70 antibody [3A3] - BSA and Azide free (ab252240)

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

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