

Anti-Hsp70 antibody [BB70] ab53496

[7 References](#) [8 图像](#)

概述

产品名称	Anti-Hsp70抗体[BB70]
描述	小鼠单克隆抗体[BB70] to Hsp70
宿主	Mouse
特异性	Detects ~72 (Hsp) and ~73kDa (Hsc).
经测试应用	适用于: IHC-P, ICC/IF, Flow Cyt, WB
种属反应性	与反应: Mouse, Rat, Cow, Human
免疫原	Other Immunogen Type corresponding to Chicken Hsp70. Database link: P08106
阳性对照	WB: Hela cell lysate; Bovine MDBK cell lysate. IHC-P: Mouse and human colon cancer tissues. Flow Cyt: Jurkat cells.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.2 Preservative: 0.09% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
纯度	Protein G purified
克隆	单克隆
克隆编号	BB70
同种型	IgG2a

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab53496 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
IHC-P		1/200.
ICC/IF		1/200.
Flow Cyt		Use 0.5µg for 10 ⁶ cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
WB		1/1000. Predicted molecular weight: 70 kDa. Detects 72kDa and 73kDa proteins corresponding to the molecular mass of inducible hsp and hsc70 on SDS PAGE immunoblots.

靶标

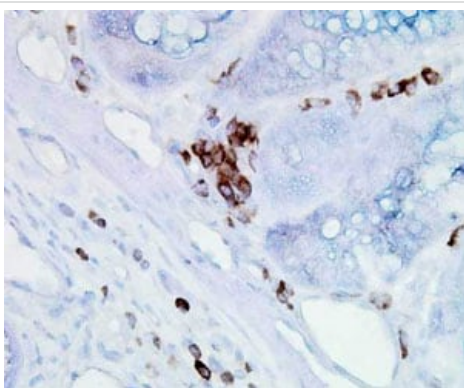
相关性

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

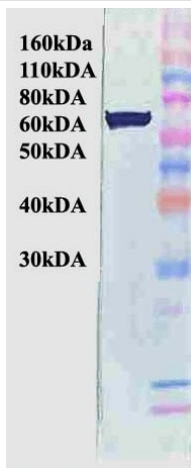
Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

图片



ab53496 at 100,000 dilution staining Hsp70 + Hsc70 in mouse colon cancer tissue section by immunohistochemistry (Formalin/ PFA fixed paraffin-embedded tissue sections). A antibody amplifier™ system was used for staining. A HRP-conjugated secondary antibody was used at 1/10 dilution.

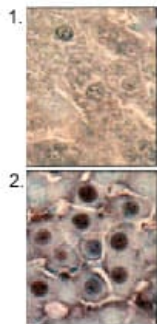
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp70 antibody [BB70] (ab53496)



Western blot - Anti-Hsp70 antibody [BB70] (ab53496)

Anti-Hsp70 antibody [BB70] (ab53496) at 1/1000 dilution + HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate

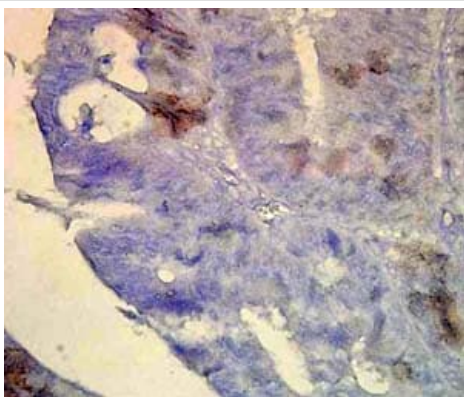
Predicted band size: 70 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp70 antibody [BB70] (ab53496)

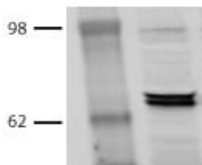
Ab53496, at a dilution of 1/200, staining Hsp70 + Hsc70 in liver smears of rat hepatocytes by Immunohistochemistry Formalin fixed Parafin embedded tissue.

1. Control
2. Two hours after exposure tp hyperthermic stress



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp70 antibody [BB70] (ab53496)

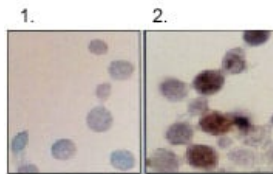
ab53496 at 100,000 dilution staining Hsp70 + Hsc70 in human colon cancer tissue section by immunohistochemistry (Formalin/PFA fixed paraffin-embedded tissue sections). A antibody amplifier™ system was used for staining.



Western blot - Anti-Hsp70 antibody [BB70] (ab53496)

Anti-Hsp70 antibody [BB70] (ab53496) at 1/1000 dilution + Bovine MDBK cells

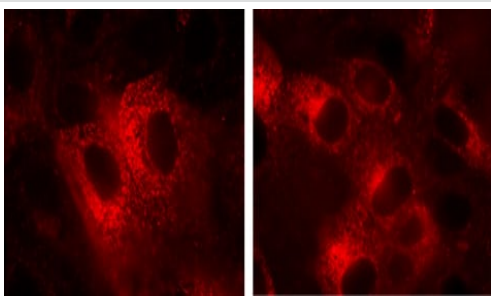
Predicted band size: 70 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Hsp70 antibody [BB70] (ab53496)

Ab53496, at a 1/200 dilution, staining Hsp70 + Hsc70 in nuclear smears of rat hepatocytes by immunocytochemistry.

1. Control
2. Five hours after exposure to hyperthermic stress

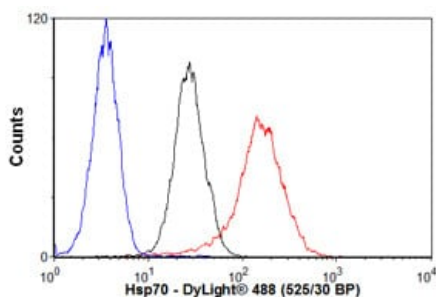


Immunocytochemistry/ Immunofluorescence - Anti-Hsp70 antibody [BB70] (ab53496)

ab53496 staining Hsp70 in LLC-PK1 cells expressing Hsp70 under cold block conditions, by Immunocytochemistry/ Immunofluorescence.

Cells were fixed with 4% paraformaldehyde, permeabilized with 0.01% Triton X-100 in PBS for 4 minutes and blocked with 1% BSA/PBS for 20 minutes. Samples were incubated with primary antibody overnight at 4°C.

Image from Rice WL et al., PLoS One. 2012;7(2):e32843. Epub 2012 Feb 28. Fig 6.; doi:10.1371/journal.pone.0032843; February 28, 2012, PLoS ONE 7(2): e32843.



Flow Cytometry - Anti-Hsp70 antibody [BB70] (ab53496)

Overlay histogram showing Jurkat cells stained with ab53496 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab53496, 0.5µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] ([ab91361](#), 1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line). Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in Jurkat cells

fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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