


Anti-Hsp70 antibody [N27F3-4] ab47454

★★★★★ [3 Abreviews](#) [3 References](#) [5 图像](#)

概述

产品名称	Anti-Hsp70抗体[N27F3-4]
描述	小鼠单克隆抗体[N27F3-4] to Hsp70
宿主	Mouse
特异性	Detects 72 and 73kDa proteins corresponding to the molecular mass of inducible Hsp and Hsc70 of SDS PAGE immunoblots.
经测试应用	适用于: IHC-P, WB, IP, ICC/IF
种属反应性	与反应: Mouse, Rat, Human 预测可用于: Plants 
免疫原	Recombinant full length protein corresponding to Human Hsp70. Recombinant hsp70/hsc70 (Human) Database link: P11142 , P34932
阳性对照	HeLa nuclear extract lysate (ab14655) can be used as a positive control in WB. ICC/IF: Hek293 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. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
纯度	Protein G purified
克隆	单克隆
克隆编号	N27F3-4

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab47454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		1/1000.
WB	★★★★★ (2)	1/1000. Predicted molecular weight: 70 kDa.
IP		Use a concentration of 5 µg/ml.
ICC/IF		1/50.

靶标

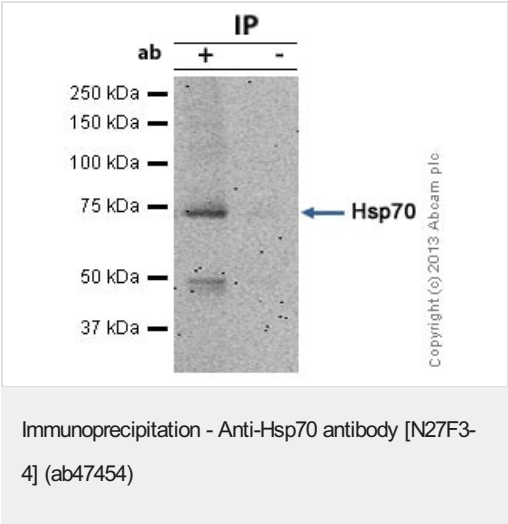
相关性

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



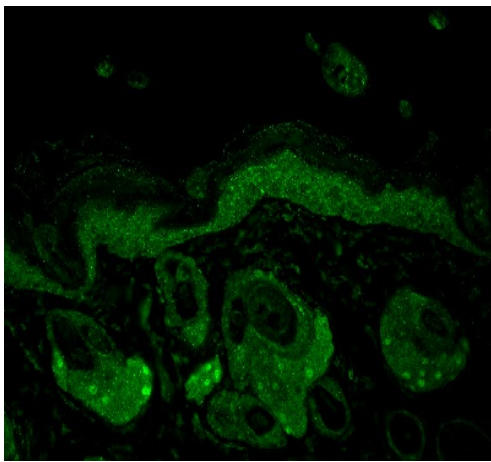
Hsp70 was immunoprecipitated using 0.5mg Rat Testis tissue lysate, 5µg of Mouse monoclonal to Hsp70 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, Rat Testis tissue lysate lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab47454.

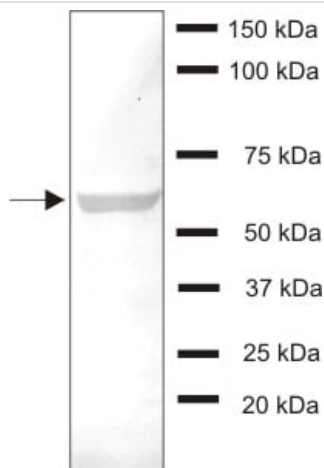
Secondary: Goat polyclonal to mouse IgG light chain specific (HRP) at 1/20,000 dilution.

Band: 70kDa, non specific bands - 50kDa: We are unsure as to the identity of this extra band; Hsp70



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp70 antibody [N27F3-4] (ab47454)

Immunohistochemistry analysis using ab47454 (1:100) staining paraffin-embedded mouse backskin. Stained for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Western blot - Anti-Hsp70 antibody [N27F3-4] (ab47454)

This image is courtesy of an anonymous Abreview

Anti-Hsp70 antibody [N27F3-4] (ab47454) at 1/500 dilution + Apterionotus leptorhynchus brain tissue lysate at 50 µg

Secondary

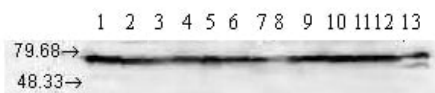
Alexa Fluor® 488-conjugated Goat anti-mouse IgG polyclonal at 1/1000 dilution

Performed under reducing conditions.

Predicted band size: 70 kDa

Observed band size: 70 kDa

Exposure time: 5 minutes



Western blot - Anti-Hsp70 antibody [N27F3-4] (ab47454)

All lanes : Anti-Hsp70 antibody [N27F3-4] (ab47454) at 1 µg/ml

Lane 1 : Cell lysate prepared from human A431 cell line

Lane 2 : Cell lysate prepared from human A549 cell line

Lane 3 : Cell lysate prepared from human HCT116 cell line

Lane 4 : Cell lysate prepared from human Hela cell line

Lane 5 : Cell lysate prepared from human HEK293 cell line

Lane 6 : Cell lysate prepared from human HepG2 cell line

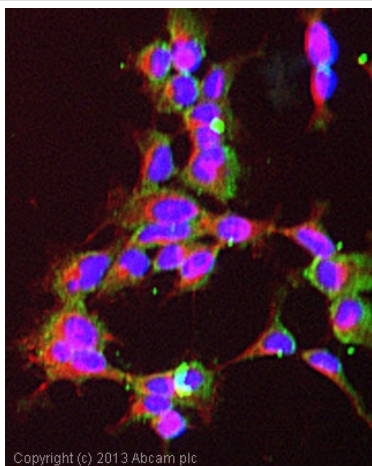
Lane 7 : Cell lysate prepared from human HL-60 cell line

Lane 8 : Cell lysate prepared from human HUVEC cell line

Lane 9 : Cell lysate prepared from human Jurkat cell line
Lane 10 : Cell lysate prepared from human MCF7 cell line
Lane 11 : Cell lysate prepared from human PC3 cell line
Lane 12 : Cell lysate prepared from human T98G cell line
Lane 13 : Lysate prepared from rat brain tissue

Lysates/proteins at 10 µg per lane.

Predicted band size: 70 kDa



ICC/IF image of ab47454 stained Hek293 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab47454, 5µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96879**, DyLight® 488 goat anti-mouse IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Immunocytochemistry/ Immunofluorescence - Anti-Hsp70 antibody [N27F3-4] (ab47454)

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