abcam

Product datasheet

Anti-Hsp70 antibody [N27F3-4] ab47454

★★★★☆ **3 Abreviews**   **3 References**   画像数 5

製品の概要

製品名	Anti-Hsp70 antibody [N27F3-4]
製品の詳細	Mouse monoclonal [N27F3-4] to Hsp70
由来種	Mouse
特異性	Detects 72 and 73kDa proteins corresponding to the molecular mass of inducible Hsp and Hsc70 of SDS PAGE immunoblots.
アプリケーション	**適用あり:** IHC-P, WB, IP, ICC/IF
種交差性	**交差種:** Mouse, Rat, Human
	交差が予測される動物種: Plants ⚠
免疫原	Recombinant full length protein corresponding to Human Hsp70. Recombinant hsp70/hsc70 (Human) Database link: **P11142, P34932**
ポジティブ・コントロール	HeLa nuclear extract lysate (**ab14655**) can be used as a positive control in WB. ICC/IF: Hek293 cells.
特記事項	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.
	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

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	N27F3-4

アイソタイプ	IgG1

アプリケーション

The Abpromise guarantee <u>Abpromise保証は、</u>次のテスト済みアプリケーションにおけるab47454の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

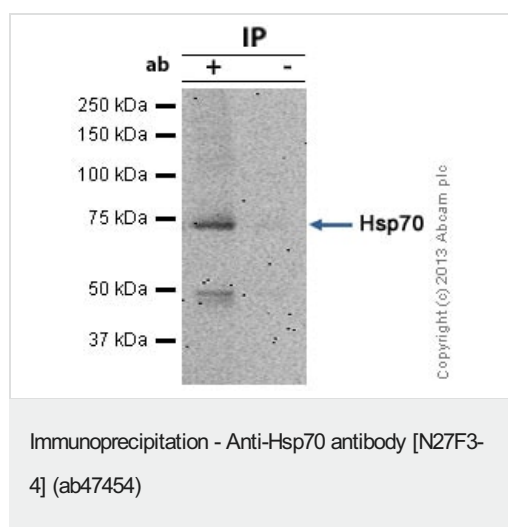| アプリケーション	Abreviews	特記事項
IHC-P		1/1000.
WB	★★★★★ (2)	1/1000. Predicted molecular weight: 70 kDa.
IP		Use a concentration of 5 µg/ml.
ICC/IF		1/50.

ターゲット情報

関連性

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.

細胞内局在

Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

画像

Immunoprecipitation - Anti-Hsp70 antibody [N27F3-4] (ab47454)
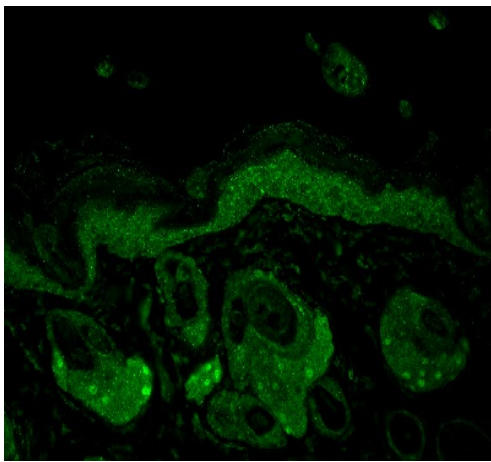
Hsp70 was immunoprecipitated using 0.5mg Rat Testis tissue lysate, 5µg of Mouse monoclonal to Hsp70 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

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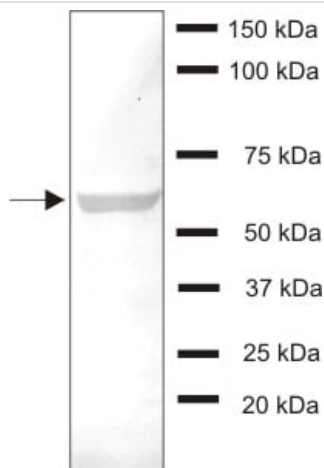
Secondary: Goat polyclonal to mouse IgG light chain specific (HRP) at 1/20,000 dilution.

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

Immunohistochemistry 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.

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

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 + Apteronotus leptorhynchus brain tissue lysate at 50 µg
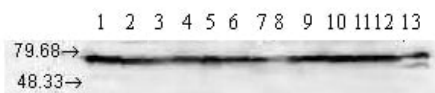
Secondary
Alexa Fluor® 488-conjugated Goat anti-mouse IgG polyclonal at 1/1000 dilution

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
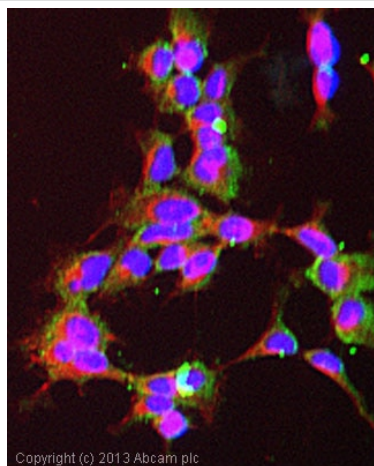**Lane 6 :** Cell lysate prepared from human HepG2 cell line
Lane 7 : Cell lysate prepared from human HL-60 cell line
Lane 8 : Cell lysate prepared from human HUVEC cell line

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

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

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.

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