

Product datasheet

Anti-Hsp70 antibody ab79852

★★★★★ 2 Abreviews 11 References 5 Images

Overview

Product name	Anti-Hsp70 antibody
Description	Rabbit polyclonal to Hsp70
Host species	Rabbit
Specificity	Detects a 70kDa protein corresponding to the molecular mass of inducible hsp70. May cross-react with Hsc70 at lower dilutions.
Tested applications	Suitable for: IHC-Fr, ICC/IF, WB, IP, IHC-P, ELISA
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Horse, Chicken, Cow, Dog, Pig, Xenopus laevis, Macaque monkey, African green monkey, Chinese hamster, Orangutan, Bos mutus grunniens, Saguinus oedipus
Immunogen	Full length protein corresponding to Human Hsp70 aa 1-641. Sequence: MAKAAAIGIDLGTTYSCVGVFQHGKVEIANDQGNRTTP SYVAFTDTERL IGDAAKNQVALNPQNTVFDKRLIGRKFQDPVVQSDM KHWPQVINDGDK PKVQVSYKGETKAFYPEEISSMVLTKMKEIAEAYLGY VTNAVITVPAYF NDSQRQATKDAGVIAGLNVLRIINEPTAAAIA YGLDRTG KGERNVLIFDL GGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLV NHFVEEFKRKHK KDISQNKRAVRRRLRTACERAKRTLSSSTQASLEIDSLF EGIDFYTSITRA RFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVG GSTRIPKVQKLL QDFFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSEN VQDLLLLDVAPLS LGLETAGGVM TALIKRNSTIPTKQTQIFTTYSDNQPGVLI QVYEGERAMT KDNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVT ATDKSTGKANK ITITNDKGRLSKEEIERMVQEAKEYKAEDDEVQRERVSA KNALESYAFNMK SAVEDEGLKKGKISEADKKKVLDKCQEVISWLDANTLA

EKDFEFHKRKELE
QVCNPIISGLYQGAGGPGPGGFGAQQGPKGGSGSGPTI
EEVD

Database link: [P08107](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

Positive control

WB: HeLa, A431, A549, HCT116, HEK-293, HepG2, HL-60, HUVEC, Jurkat, MCF7, PC3, T98G and rat brain tumour lysates.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.4 Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal

Applications

Our [Abpromise guarantee](#) covers the use of **ab79852** 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
IHC-Fr		Use at an assay dependent concentration.
ICC/IF	★★★★★	1/100.
WB		1/10000. Detects a band of approximately 70 kDa.
IP		1/100.
IHC-P		1/100.
ELISA		Use at an assay dependent concentration.

Target

Function

In cooperation with other chaperones, Hsp70s 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.

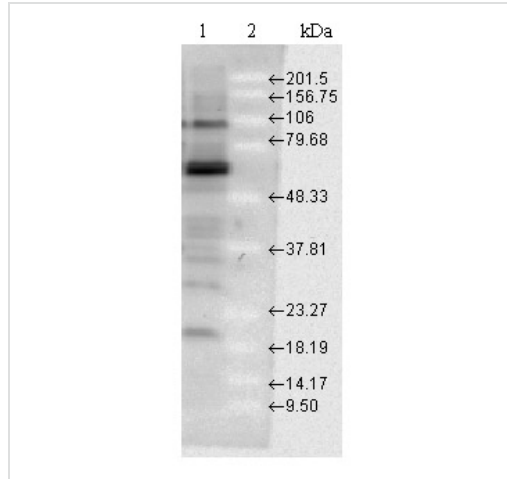
Sequence similarities

Belongs to the heat shock protein 70 family.

Cellular localization

Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

Images

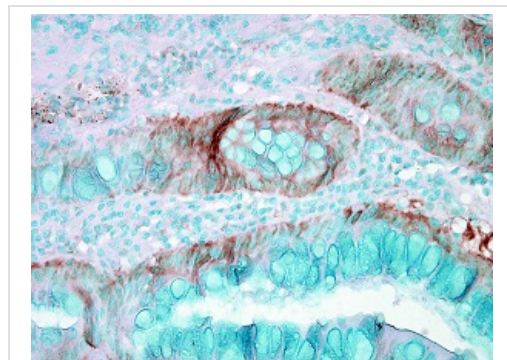


Western blot - Anti-Hsp70 antibody (ab79852)

All lanes : Anti-Hsp70 antibody (ab79852) at 1/25000 dilution

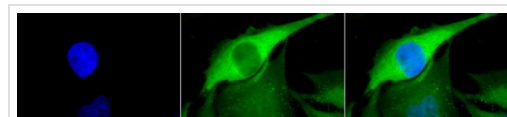
Lane 1 : Cell lysates prepared from mouse Pam212 cells

Lane 2 : Molecular weight marker



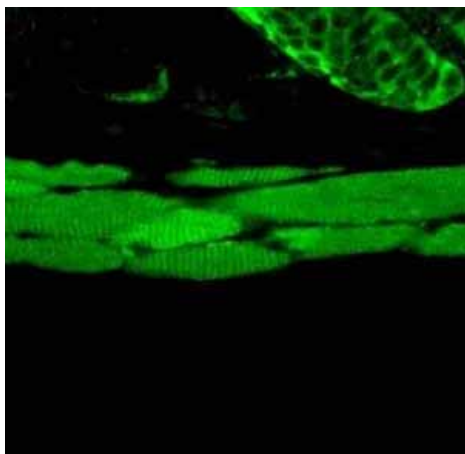
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp70 antibody (ab79852)

Immunohistochemistry of human colon carcinoma staining Hsp70 using ab79852 at 1:50000. A Biotin conjugated Goat Anti-Rabbit antibody at 1:2000 was used as a secondary antibody and Methyl Green at 200uL was used to counter stain.



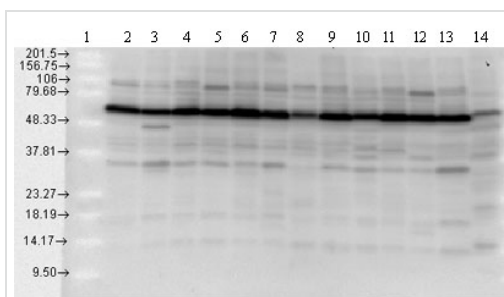
Immunocytochemistry/ Immunofluorescence - Anti-Hsp70 antibody (ab79852)

Immunocytochemistry/Immunofluorescence analysis of heat shocked HeLa cells staining Hsp70 using ab79852 at a 1:100 dilution. The secondary antibody was a FITC conjugated Goat Anti-Rabbit (green) at a 1:200 dilution. Counterstain: DAPI (blue) nuclear stain at 1:40000. (A) DAPI (blue) nuclear stain. (B) Anti-Hsp70 Antibody. (C) Composite.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp70 antibody (ab79852)

ab79852 staining Hsp70 in mouse backskin tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections).



Western blot - Anti-Hsp70 antibody (ab79852)

All lanes : Anti-Hsp70 antibody (ab79852) at 1/25000 dilution

- Lane 1 :** Molecular weight marker
- Lane 2 :** Cell lysates prepared from human A431 cells
- Lane 3 :** Cell lysates prepared from human A549 cells
- Lane 4 :** Cell lysates prepared from human HCT116 cells
- Lane 5 :** Cell lysates prepared from Hela cells
- Lane 6 :** Cell lysates prepared from HEK293 cells
- Lane 7 :** Cell lysates prepared from HepG2 cells
- Lane 8 :** Cell lysates prepared from HL-60 cells
- Lane 9 :** Cell lysates prepared from HUVEC cells
- Lane 10 :** Cell lysates prepared from Jurkat cells
- Lane 11 :** Cell lysates prepared from MCF7 cells
- Lane 12 :** Cell lysates prepared from PC3 cells
- Lane 13 :** Cell lysates prepared from T98G cells
- Lane 14 :** Tissue lysates prepared from Rat brain

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