




## Product datasheet

### Anti-Hsp70 antibody ab79852

★★★★★ [3 Abreviews](#) [52 References](#) [6 Images](#)

#### Overview

<b>Product name</b>	Anti-Hsp70 antibody
<b>Description</b>	Rabbit polyclonal to Hsp70
<b>Host species</b>	Rabbit
<b>Specificity</b>	Detects a 70kDa protein corresponding to the molecular mass of inducible hsp70. May cross-react with Hsc70 at lower dilutions.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Horse, Chicken, Cow, Dog, Pig, Xenopus laevis, Macaque monkey, African green monkey, Chinese hamster, Orangutan, Bos mutus grunniens, Saguinus oedipus 
<b>Immunogen</b>	Recombinant full length protein corresponding to Human Hsp70 aa 1 to the C-terminus. Database link: <a href="#">P0DMV8/P0DMV9</a>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	IHC-P: mouse Inflamed colon tissue; human colon carcinoma.
<b>General notes</b>	<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&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal

## Applications

### The Abpromise guarantee

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
ICC/IF	★★★★★ (2)	1/100.
WB	★★★★☆ (1)	1/10000. Detects a band of approximately 70 kDa.
IHC-P		1/100 - 1/1000.

## Target

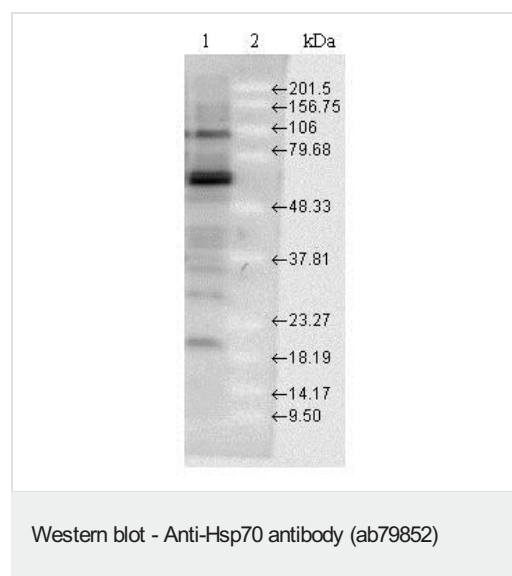
### Relevance

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.

### Cellular localization

Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

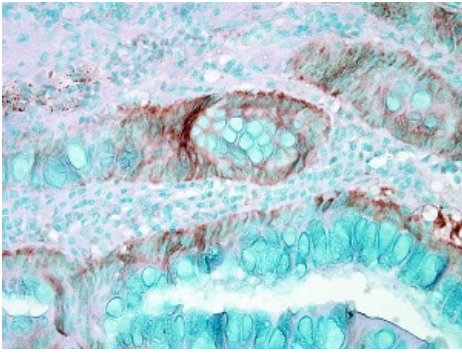
## Images



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

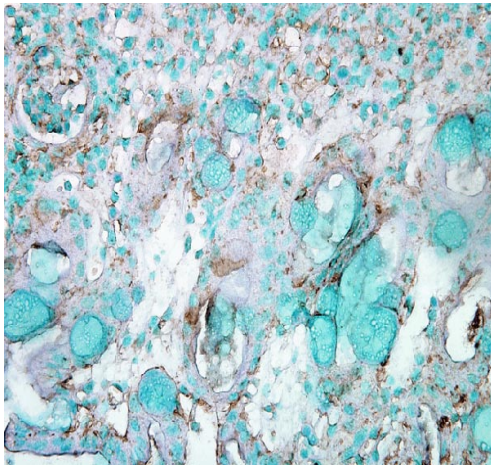
**Lane 1** : Cell lysates prepared from mouse Pam212 cells

**Lane 2** : Molecular weight marker



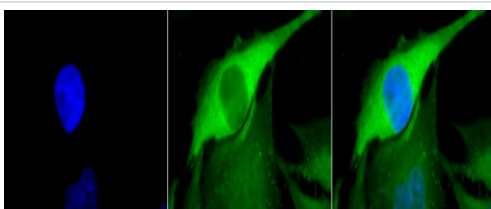
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp70 antibody (ab79852)

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.



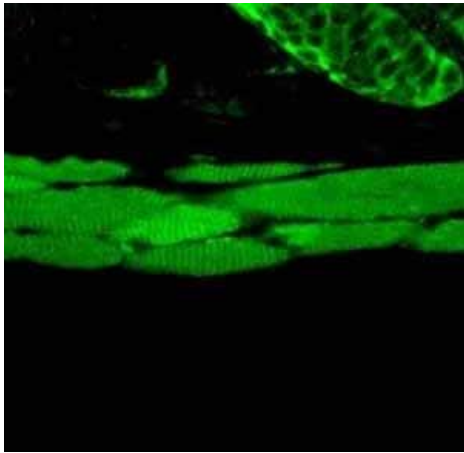
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp70 antibody (ab79852)

Immunohistochemical analysis of paraffin-embedded formalin fixed (4%) mouse Inflamed colon tissue labelling Hsp70 with ab79852 at 1/1000 dilution for 12 hours at 4°C, followed by secondary antibody Goat Anti-Rabbit (Biotin) at 1/2000 dilution for 1 hour at RT. Counter stained with Methyl Green at 200uL for 2 min at RT.



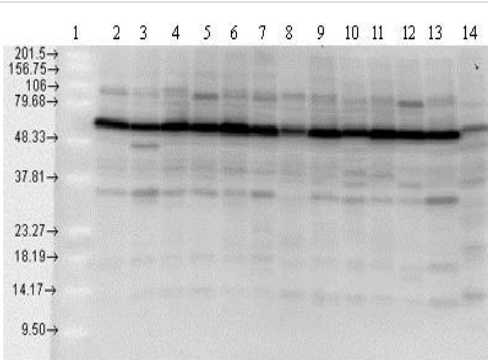
Immunocytochemistry/ Immunofluorescence - Anti-Hsp70 antibody (ab79852)

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

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

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