

## Product datasheet

# Anti-Hsp70 antibody ab61097

[2 Images](#)

### Overview

<b>Product name</b>	Anti-Hsp70 antibody
<b>Description</b>	Mouse monoclonal to Hsp70
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human <b>Predicted to work with:</b> Horse, Cow, Dog, Pig, Opossum, Orangutan
<b>Immunogen</b>	Recombinant fragment with tag: VQRERVSAKN ALESYAFNMK SAVEDEGLKG KISEADKKKV LDKCQEVISW LDANTLAEKD EFEHKRKELE QVCNPIISGL Y, corresponding to amino acids 531-612 of Human Hsp70 <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	HeLa nuclear extract.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: None Constituents: PBS, pH 7.2
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG2a

### Applications

Our [Abpromise guarantee](#) covers the use of **ab61097** 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

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WB		Use a concentration of 1 - 5 µg/ml. Detects a band of approximately 73 kDa (predicted molecular weight: 70 kDa).
IHC-P		Use a concentration of 3 µg/ml.
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.

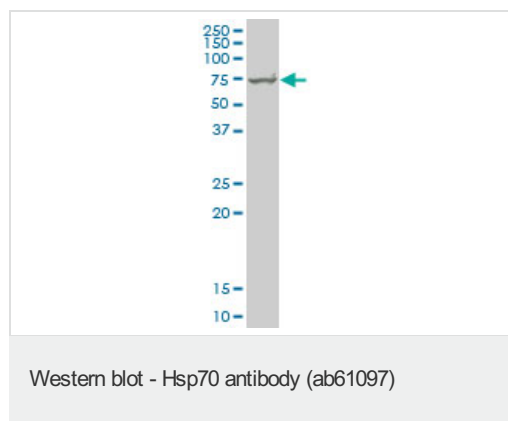
### Sequence similarities

Belongs to the heat shock protein 70 family.

### Cellular localization

Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

## Images

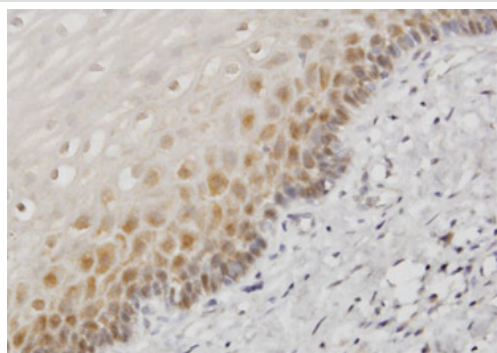


Anti-Hsp70 antibody (ab61097) at 1 µg/ml +

Hela nuclear extract at 25 µg

**Predicted band size:** 70 kDa

**Observed band size:** 73 kDa



ab61097 at 3 ug/ml staining HSPA1B in human esophagus tissue section by Immunohistochemistry (Formalin/ PFA fixed paraffin-embedded tissue sections).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)-Hsp70 antibody(ab61097)

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