


Product datasheet

Anti-Hsp70 antibody ab61097

[2 Images](#)

Overview

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

Properties

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

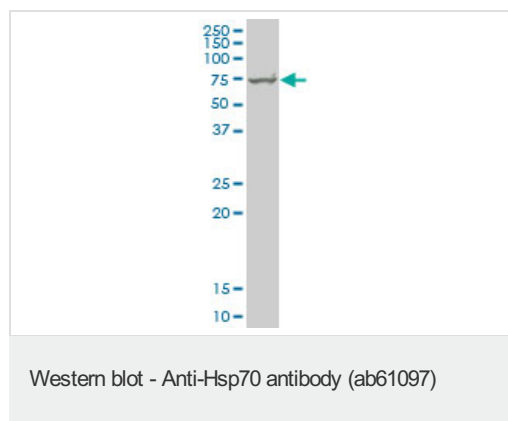
Sequence similarities

Belongs to the heat shock protein 70 family.

Cellular localization

Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

Images

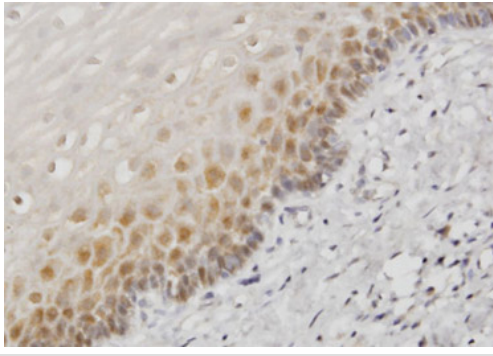


Anti-Hsp70 antibody (ab61097) at 1 µg/ml + HeLa nuclear extract at 25 µg

Predicted band size: 70 kDa

Observed band size: 73 kDa

[why is the actual band size different from the predicted?](#)



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) - Anti-Hsp70 antibody (ab61097)

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