

Product datasheet

Recombinant rat Hsp70 protein ab91602

2 Images

Overview

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**Product name** Recombinant rat Hsp70 protein  
**Protein length** Full length protein

Description

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**Nature** Recombinant  
**Source** Escherichia coli

Amino Acid Sequence

**Species** Rat

Specifications

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Our [Abpromise guarantee](#) covers the use of **ab91602** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Biological activity** ATPase Activity Assay: Positive

**Applications** Western blot  
 Functional Studies  
 SDS-PAGE

**Purity** > 90 % SDS-PAGE.  
 Purified by Multi-step chromatography. >90% pure as determined by SDS-PAGE and Western blot analyses. This protein does not contain DnaK as demonstrated by western blot analysis using anti-DnaK.

**Form** Liquid

Preparation and Storage

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**Stability and Storage** Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.  
 Preservative: None  
 Constituents: 50mM Tris HCl, 100mM Sodium chloride, 1mM DTT, 0.1mM PMSF, pH 7.5  
 This product is an active protein and may elicit a biological response in vivo, handle with caution.

## General Info

### 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.

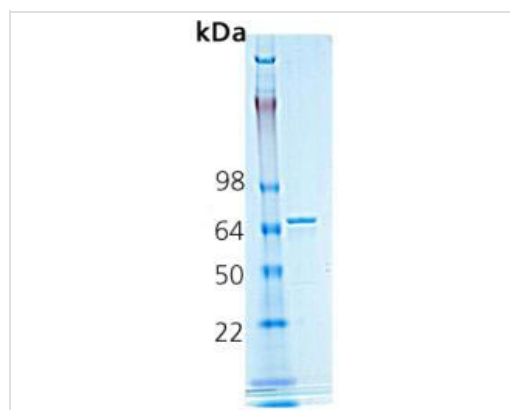
### Sequence similarities

Belongs to the heat shock protein 70 family.

### Cellular localization

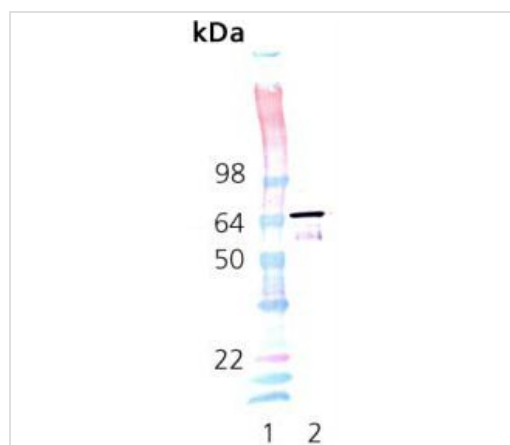
Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

## Images



SDS-PAGE Analysis of 0.5 µg ab91602

SDS-PAGE - Hsp70 protein (Active) (ab91602)



**All lanes :** Anti-Hsp70 Monoclonal Antibody  
at 1 µg/ml

**Lane 1 :** Molecular weight markers

**Lane 2 :** ab91602 at 0.1 µg

Western blot - Hsp70 protein (Active) (ab91602)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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