

HSPA1A/HSPA1B Antibody (Y41)  
Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP22369a-200 □

## Specification

### HSPA1A/HSPA1B Antibody (Y41) - Product info

Application	WB
Primary Accession	<a href="#">P08107</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit Ig
Clone Names	RB58828
Calculated MW	70052

### HSPA1A/HSPA1B Antibody (Y41) - Additional info

Gene ID 3303;3304

#### Other Names

Heat shock 70 kDa protein 1A/1B, Heat shock 70 kDa protein 1/2, HSP70-1/HSP70-2, HSP70.1/HSP70.2, HSPA1A, HSPA1, HSX70

#### Target/Specificity

This HSPA1A/HSPA1B antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from the human region of human HSPA1A/HSPA1B.

#### Dilution

WB~1:1000

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

HSPA1A/HSPA1B Antibody (Y41) is for research use only and not for use in diagnostic or therapeutic procedures.

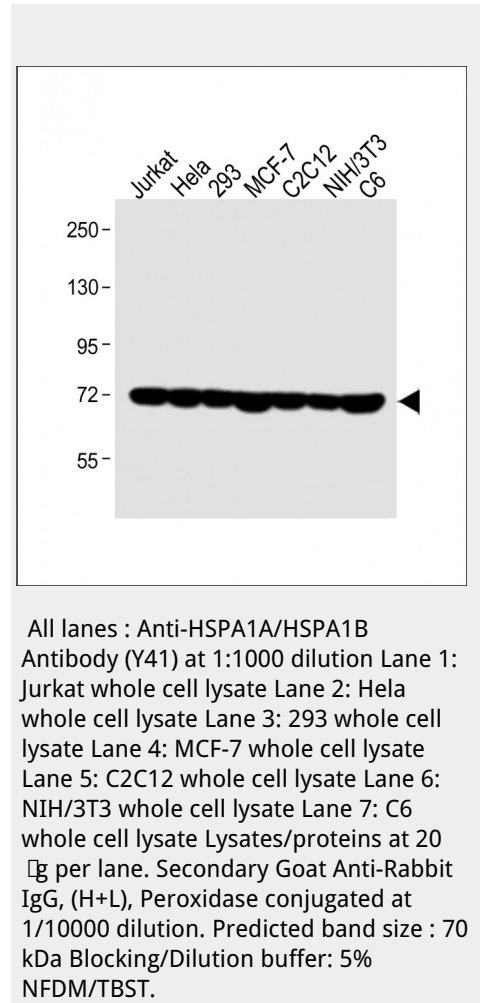
### HSPA1A/HSPA1B Antibody (Y41) - Protein Information

Name HSPA1A

Synonyms HSPA1, HSX70

#### 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.

#### Cellular Location

Cytoplasm. Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs

#### Tissue Location

HSPA1B is testis-specific.

### HSPA1A/HSPA1B Antibody (Y41) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### HSPA1A/HSPA1B Antibody (Y41) - Background

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.

### HSPA1A/HSPA1B Antibody (Y41) - References

Milner C.M., et al. *Immunogenetics* 32:242-251(1990). Hunt C., et al. *Proc. Natl. Acad. Sci. U.S.A.* 82:6455-6459(1985). Xie T., et al. *Genome Res.* 13:2621-2636(2003). Shiina S., et al. Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases. Ota T., et al. *Nat. Genet.* 36:40-45(2004).