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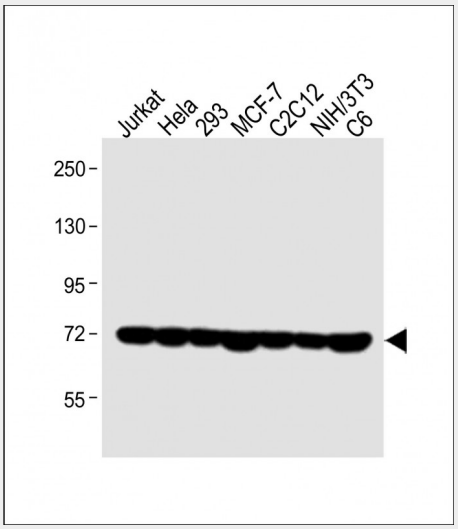
HSPA1A/HSPA1B Antibody (Y41)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22369a-200

Specification

HSPA1A/HSPA1B Antibody (Y41) - Product info

Application	WB
Primary Accession	P08107
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit Ig
Clone Names	RB58828
Calculated MW	70052



All lanes : Anti-HSPA1A/HSPA1B Antibody (Y41) at 1:1000 dilution Lane 1: Jurkat whole cell lysate Lane 2: Hela whole cell lysate Lane 3: 293 whole cell lysate Lane 4: MCF-7 whole cell lysate Lane 5: C2C12 whole cell lysate Lane 6: NIH/3T3 whole cell lysate Lane 7: C6 whole cell lysate Lysates/proteins at 20 μg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 70 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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 Cytomety
- 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).