

**HSPA1A/HSPA1B Antibody (Y41)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP22369a**

**Specification**

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**HSPA1A/HSPA1B Antibody (Y41) - Product Information**

Application	<b>WB, IHC-P-Leica,E</b>
Primary Accession	<a href="#">PODMV8</a> , <a href="#">PODMV9</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>polyclonal</b>
Isotype	<b>Rabbit IgG</b>

**HSPA1A/HSPA1B Antibody (Y41) - Additional Information**

**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  
IHC-P-Leica~~1:500

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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**

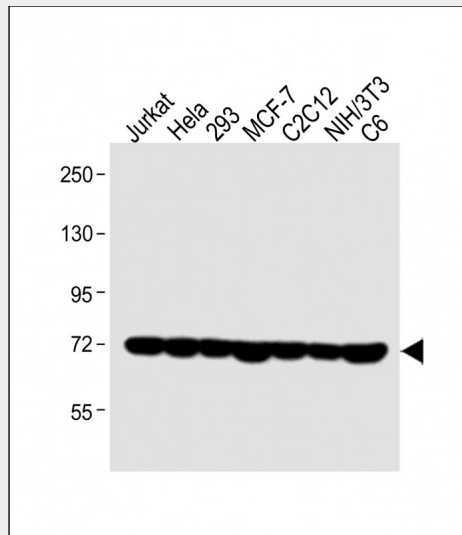
**HSPA1A/HSPA1B Antibody (Y41) - Protocols**

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

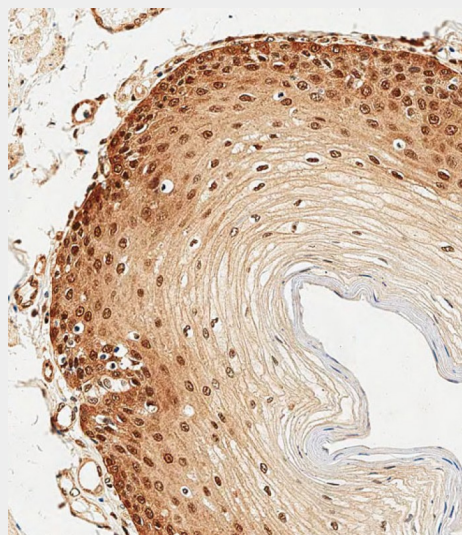
- [Western Blot](#)

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

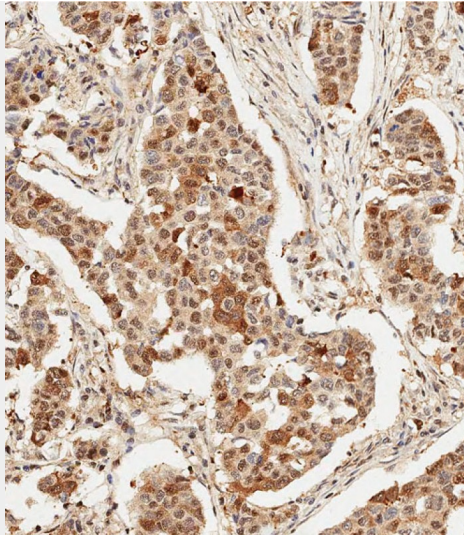
### HSPA1A/HSPA1B Antibody (Y41) - Images



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.



Immunohistochemical analysis of paraffin-embedded Human esophagus tissue using AP22369a performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue using AP22369a performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

#### **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).