

**HSP70 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1343a****Specification**

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**HSP70 Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">P34932</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	70kDa KDa

**Description**

This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjunction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-rich element RNA-binding protein 1. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which encode similar proteins.

**Immunogen**

Purified recombinant fragment of human HSP70 expressed in E. Coli.

**Formulation**

Ascitic fluid containing 0.03% sodium azide. <br />

**HSP70 Antibody - Additional Information**

**Gene ID** 3308

**Other Names**

Heat shock 70 kDa protein 4, HSP70RY, Heat shock 70-related protein APG-2, HSPA4, APG2

**Dilution**

WB~~1/500 - 1/2000

IHC~~1/200 - 1/1000

IF~~1/200 - 1/1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HSP70 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**HSP70 Antibody - Protein Information**

**Name** HSPA4

**Synonyms** APG2

**Cellular Location**  
Cytoplasm.

### HSP70 Antibody - 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](#)

### HSP70 Antibody - Images

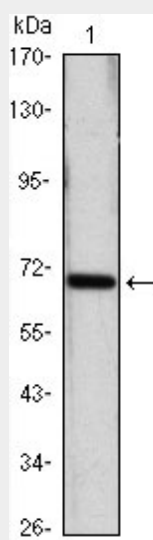


Figure 1: Western blot analysis using HSP70 mouse mAb against Hela (1) cell lysate.

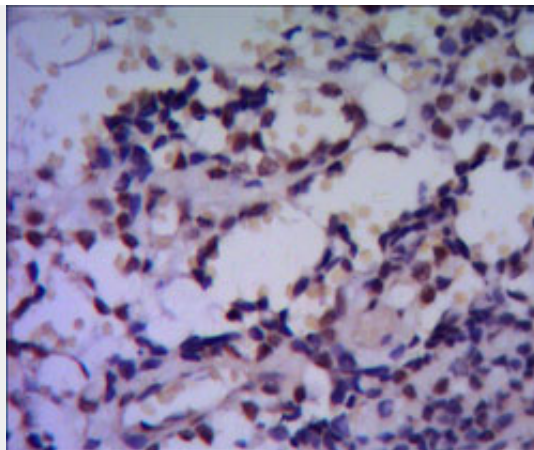


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast cancer using HSP70 mouse mAb with DAB staining.

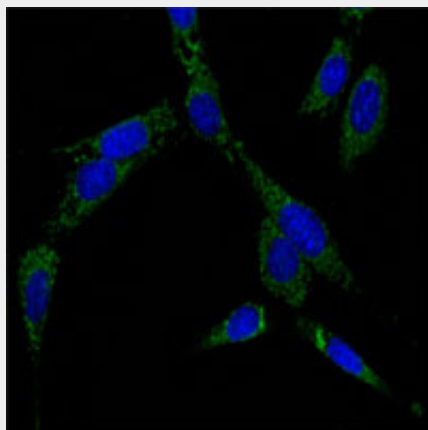


Figure 3: Immunofluorescence analysis of NIH/3T3 cells using HSP70 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

#### **HSP70 Antibody - References**

1. J Hepatol. 2009 Apr;50(4):746-54.
2. Int J Gynecol Pathol. 2009 May;28(3):211-21.