

DATASHEET

Version: 2016-08-17

HSP70 Antibody, pAb, Rabbit**Cat. No.:** A01236-40**Size:** 40 µg**Synonyms:** Rabbit Anti-HSP70 pAb;**Description:**

HSP70 is a member of the chaperonin family. It stabilizes existing proteins against aggregation and mediates the folding of newly translated polypeptides in both cytosol and organelles. HSP70 participates in all of these processes through its ability to recognize nonnative conformations of other proteins. It binds extended peptide segments with a net hydrophobic character exposed during translation and membrane translocation or following stress-induced damage. GenScript **Rabbit Anti-HSP70 Polyclonal Antibody** is developed in rabbit hosts using a KLH-coupled synthetic peptide within N-terminal of human HSP70 protein (Swiss Prot: P08107).

Immunogen: Synthetic peptide (KLH-coupled) within the N-terminal of human HSP70 protein (Swiss Prot: P08107).

Host: Rabbit**Antigen Synonyms:** Human**Conjugation:** Unconjugated**Predicated Band Size:**

70 kD

Observed Band Size:

70 kD

Formulation:

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide

Ig Subclass: Rabbit IgG**Example****Specificity:** GenScript Rabbit Anti-HSP70 Polyclonal

Antibody detects endogenous levels of human and mouse HSP70 protein. Sequence homology predicts that it will also react with rat HSP70 protein.

Purification: Immunoaffinity chromatography**Applications:**

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.05-0.2 µg/ml**Western blot:** 0.5-1 µg/ml**Flow cytometry:** 1-3 µg for 1 X 10⁶ cell**Other applications:** user-optimized

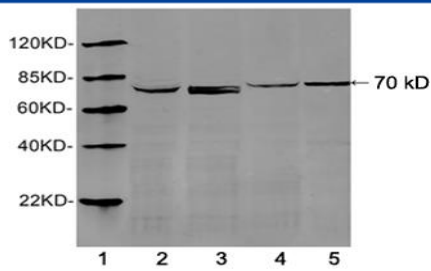
Species Reactivity: Human and mouse. This product has not yet been tested with other species.

Reconstitution:

Reconstitute the lyophilized powder with deionized water (or equivalent) to an antibody concentration of 0.5 mg/ml.

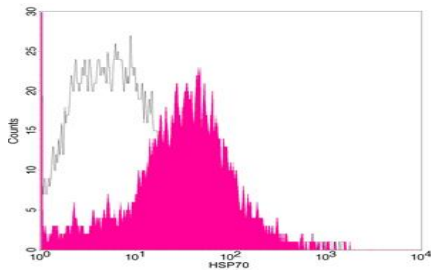
Storage:

The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.



Lane 1: Marker
 Lane 2: HeLa cell lysate
 Lane 3: HEK293 cell lysate
 Lane 4: NIH/3T3 cell lysate
 Lane 5: Mouse brain tissue lysate

Western blot analysis of lysates using 1 µg/ml Rabbit Anti-HSP70 Polyclonal Antibody (GenScript, A01236)
 The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG



Flow cytometric analysis of HEK-293 cells using Rabbit Anti-HSP70 Polyclonal Antibody (GenScript, A01236; shaded histogram)
 or with an isotype control antibody (GenScript, A01008; open histogram), followed by R-PE conjugated anti-rabbit IgG .