

# Anti-Hsp70 (Ser153) Antibody

Our Anti-Hsp70 (Ser153) rabbit polyclonal phosphospecific primary antibody from PhosphoSolutions is Catalog # AN1427

### Specification

# Anti-Hsp70 (Ser153) Antibody - Product Information

ClonalityPolyclonalIsotypeIgGCalculated MW70052	Isotype	IgG
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## Anti-Hsp70 (Ser153) Antibody - Additional Information

#### Gene ID

3303;3304

Other Names

DnaK type molecular chaperone HSP70 1 antibody, Epididymis secretory protein Li 103 antibody, FLJ54303 antibody, FLJ54370 antibody, FLJ54392 antibody, FLJ54408 antibody, FLJ75127 antibody, Heat shock 70 kDa protein 1 antibody, Heat shock 70 kDa protein 1/2 antibody, Heat shock 70 kDa protein 1A antibody, Heat shock 70 kDa protein 1A/1B antibody, Heat shock 70 kDa protein 1B antibody, Heat shock induced protein antibody, HEL S 103 antibody, HSP70 1 antibody, HSP70 1A antibody, HSP70 1B antibody, HSP70 2 antibody, HSP70-1 antibody, HSP70-1/HSP70-2 antibody, HSP70-1A antibody, HSP70.1 antibody, HSP70.1/HSP70.2 antibody, HSP71\_HUMAN antibody, HSP72 antibody, HSP72 antibody, HSPA1A antibody, HSPA1B antibody

#### **Target/Specificity**

The Hsp70 family of heat shock proteins are considered stress-induced survival proteins as they are expressed when exposed to factors such as heat, hypoxia, oxidative stress, altered pH or by underlying factors like cancer (Daugaard et al. 2007). Hsp70 proteins are able to bind hydrophobic residues on misfolded proteins, thereby preventing their aggregation and thus serving important roles in protein homeostasis. To date, there have been 8 members of the family identified; the majority of which are found in the cytosol though some have specific function in tissue or an organelle (Murphy, 2013). Hsp70 has also been shown to play a major role in cancer; from tumor grade to prognosis, as well as chemotherapeutic drug resistance (Ciocca et al, 2005). There have been several phospho-serine and threonine sites identified within Hsp70, the role of each one has yet to be determined.

#### Format

Antigen Affinity Purified from Pooled Serum

#### 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

Anti-Hsp70 (Ser153) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Shipping



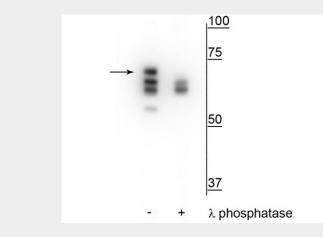
Blue Ice

# Anti-Hsp70 (Ser153) 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 Cytomety
- <u>Cell Culture</u>

# Anti-Hsp70 (Ser153) Antibody - Images



Western blot of T47D cell lysate treated with EGF (1 nM) for 60 minutes showing specific labeling of the ~70 kDa Hsp70 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is eliminated or significantly decreased with lambda phosphatase ( $\lambda$ -Ptase, 1200 units for 30 minutes).

## Anti-Hsp70 (Ser153) Antibody - Background

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