10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Hsp70 (Ser153) Antibody

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

Product Information

Application	WB
Primary Accession	P0DMV8
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	70052

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 70kDa 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, HSPA1 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.
Dilution	WB~~1:1000
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

Background

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.