

## Monoclonal Antibody to Heat Shock Protein 70 (HSP70)

<b>Alternate names:</b>	HSP-70, HSP70-1, HSP70-2, HSP70.1, HSPA1, HSPA1A, HSPA1B, Heat Shock 70 kDa Protein 1
<b>Catalog No.:</b>	DM3097
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.2 mg/ml
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Recommended Isotype Controls:</b>	AM03096PU-N
<b>Clone:</b>	W27

**Immunogen:** HSP70 protein from HeLa Cells.

**Applications:** Flow Cytometry. Immunofluorescence. Immunoprecipitation (Native and denatured): Use Protein A; Ab 2µg/mg protein lysate. Western Blotting: Ab 0.5-1µg/ml for 2hrs at RT. Immunohistology (Formalin/paraffin): Use Ab 2-4µg/ml for 30 min at RT. Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0. Recommended positive control: BT474 or HeLa Cells, Breast Carcinoma. Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:** Heat shock proteins (HSPs) or stress response proteins (SRPs) are synthesized in variety of environmental and pathophysiological stressful conditions. These proteins are involved in processes such as protein denaturation-renaturation, folding-unfolding, transport-translocation, activation-inactivation, and secretion. HSP70 is found to be associated with steroid receptors, actin, p53, polyoma T-antigen, nucleotides, and other unknown proteins. Also, HSP70 has been shown to be involved in protective roles against thermal stress, cytotoxic drugs, and other damaging conditions. Reacts with Human, Monkey, and Cow. Others not tested. Cellular Localization: cytoplasmic, nuclear.

Notes: Recognizes both the constitutive (HSP73), and inducible (HSP72) forms of HSP70

Mol. Wt. of Antigen: 73kD

**Storage:** Store the antibody at 4°C. Do not freeze! Shelf life: one year from despatch.