



Product Information Sheet

Monoclonal Anti-Heat Shock Protein 70, *HSP70*

Catalogue No. MA1050

Immunogen

HSP70 isolated from bovine brain.

Lot No. 08A12

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Clone: SJ-70

Ig type: mouse IgG1

Application

Western blot

Size: 100µg/vial

At 0.5µg/ml with the appropriate system to detect HSP70 in cells and tissues.

Specificity

Human.

Immunohistochemistry(P)

No cross reactivity with other proteins.

At 0.5-1µg/ml to detect HSP70 in formalin fixed and paraffin embedded tissues.

Immunohistochemistry(F)

At 0.5-1µg/ml to detect HSP70 in formalin or acetone fixed tissues.

Recommended application

Other applications have not been tested.

Western blot

Optimal dilutions should be determined by end user.

Immunohistochemistry(P)

Immunohistochemistry(F)

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

To reorder contact us at:

Antagene, Inc.

Toll Free: 1(866)964-2589

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Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

BACKGROUND

Heat-shock proteins, or stress proteins, are expressed in response to heat shock and a variety of other stress stimuli including oxidative free radicals and toxic metal ions. Sargent et al. (1989) identified a duplicated HSP70 locus in the class III region of the major histocompatibility complex on 6p21.3. A duplicated locus encoding the major heat shock-induced protein HSP70 is located in the major histocompatibility complex (MHC) class III region 92 kilobases (kb) telomeric to the C2 gene. The 70-kd

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mammalian heat shock proteins are structurally and functionally related to the uncoating protein that releases clathrin triskelia from coated vesicles.

REFERENCE

1. Milner, C. M.; Campbell, R. D. : *Structure and expression of the three MHC-linked HSP70 genes. Immunogenetics* 32: 242-251, 1990.
2. Ungewickell, E. : *The 70-kd mammalian heat shock proteins are structurally and functionally related to the uncoating protein that releases clathrin triskelia from coated vesicles. EMBO J.* 4: 3385-3391, 1985.