

PRODUCT DATA SHEET

Product: Anti-Heat Shock Protein 70 (HSP70), Clone W27

Cat. No: MC-665 (100 µg/500 µl)

Background:

A wide variety of environmental and pathophysiological stress conditions trigger the synthesis of a family of proteins known as heat shock proteins, more appropriately called stress response proteins. Many heat shock proteins, including members of the Ssp70 family, 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.

Specificity:

This clone recognizes both the constitutive (Hsp73) and inducible (Hsp72) forms of Hsp70.

Positive Control: BT474 or HeLa cells. Breast carcinoma.

Species Reactivity:

Reacts with Human, Monkey and Bovine. Other species not tested.

Ig Isotype: mouse IgG2a

Immunogen:

Hsp70 protein from HeLa cells.

Hybridoma:

Produced by fusion between BALB/c splenocytes and mouse myeloma NS-1 cells.

Format:

Clone W27 is a monoclonal antibody against Heat Shock Factor 2. It is available at a concentration of 100µg/500ul in 10 mM PBS, pH 7.4, with 0.2% BSA and 15mM sodium azide. Purified from ascites fluid by Protein A chromatography.

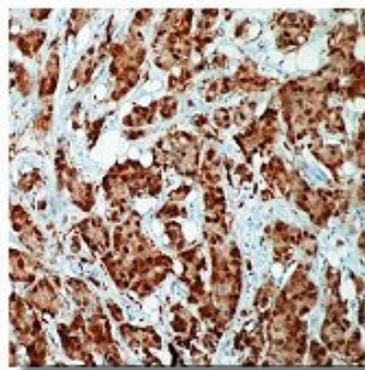
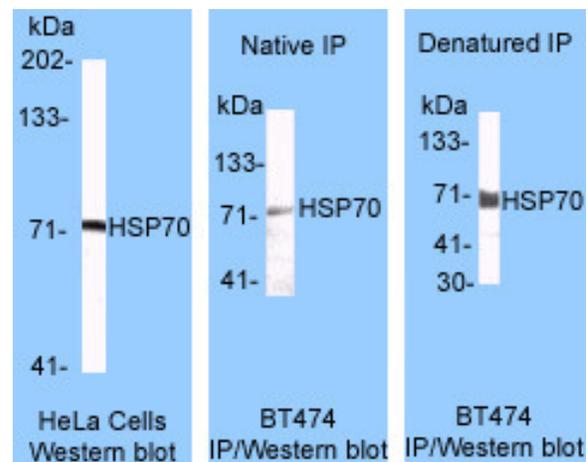
Storage and Stability:

Stable for 24 months when stored at 2-8°C.

Applications and Suggested Dilutions:

- Flow Cytometry
- Immunofluorescence (Not assessed)
- Immunoprecipitation: Use at 2 µg/mg protein lysate. Use Protein A.
- Western blotting: 0.5-1 µg/ml for 2 hrs. at RT
- Immunohistology: Formalin/paraffin - Use at 2-4 µg/ml for 30 min at RT. Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10 mM citrate buffer, pH 6.0.

The optimal dilution for a specific application should be determined by the researcher.



Formalin-fixed, paraffin embedded human breast carcinoma stained with MC-665.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.