



PRODUCT DATA SHEET

Product: Anti-Heat Shock Protein 27 (HSP27), clone G3.1

Cat. No.: MC-663 (100 µg)

Background:

Hsp27 was recently found to be identical to the estrogen-induced p29 and 24K proteins. About 50% of breast carcinomas are positive for Hsp27, especially those that are also positive for estrogen and or progesterone receptor. Hsp27 has also been implicated in drug resistance in cancer cells.

Specificity:

This antigen recognizes a 24-27 kDa estrogen-regulated protein known as heat shock protein 27 (HSP27).

Positive Controls:

BT474 and breast carcinoma cells.

Species Reactivity:

Human, monkey and chimpanzee, others not tested.

Ig Isotype:

Mouse IgG₁

Immunogen:

Partially purified HSP27 protein from breast cancer MCF-7 cells.

Hybridoma:

Produced by fusion between BALB/c splenocytes and mouse myeloma p3NS-1/Ag4-1 (NS1) cells.

Format:

Clone G3.1 is a monoclonal antibody against Heat Shock Factor 2. It is available at a concentration of 100 µg/500 µL in 10 mM PBS, ph. 7.4, with protein stabilizer and 15 mM sodium azide. Purified from ascites fluid by Protein G chromatography.

Storage:

Store at 4 °C.

Applications and Suggested Dilutions:

- Immunohistochemistry: Frozen and formalin/paraffin- Use at 1-2 µg/mL for 60 min at RT. Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10 mM citrate buffer, pH 6.0.
- Western blotting: Use at 1-2 µg/mL for 2 hrs. at RT

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

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.