

## Anti-Hsp25/Hsp27 Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 11110 (clone 8A7)

**Size:** 100ug in PBS, pH 7.4, purified by Protein G affinity chromatography.

### BACKGROUND

Hsp25 is the mouse homologue of human Hsp27, a member of the small heat shock protein family comprised of proteins of ~15->30kDa. Oligomers of Hsp27 consist of as many as 8-40 Hsp27 monomers; large oligomers have high chaperone activity whereas dimers have no chaperone activity. Hsp27 is localized to the cytoplasm of unstressed cells but redistributes to the nucleus in response to stress where it may stabilize DNA and/or the nuclear membrane. It can be rapidly phosphorylated in response to physiological stimuli, and, therefore, has been suggested as an important intermediate in second messenger-mediated signaling pathways. Hsp27 appears to be involved in cell differentiation and may play a role in termination of cell growth.

### SPECIFICATION SUMMARY

**Antigen:** Hsp27 peptide

**Host Species:** Mouse

**Antibody Class:** IgG1

**Preservatives:** 0.09% sodium azide

**Other additives:** 50% glycerol

### SPECIFICITY

This antibody recognizes human, mouse, rat, bovine, canine, guinea pig, and hamster Hsp 25/27. Some cross-reactivity with alpha B crystallin.

### APPLICATIONS

*Immunoblotting:* use at 0.2ug/ml (ECL).

A band of 25-27 kDa is detected.

*Immunofluorescence:* use at 5ug/ml.

*Positive control:* HeLa cell lysate

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*