

## Anti-Hsp60 Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 11100 (clone LK-1)

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

### BACKGROUND

Hsp60 is an abundant protein synthesized constitutively in various cell types that is induced to higher concentrations after cell shock. It is present in mitochondria of many mammalian species and has highly similar counterparts in bacteria and plants (where it is localized to chloroplasts). In general, Hsp60 proteins are present in high concentrations, are induced in response to environmental stresses (such as heat shock) are homo-oligomeric structures of 7 or 14 subunits that dissociate reversibly in the presence of Mg<sup>2+</sup> and ATP, have ATPase activity, and play a role in folding and assembly of oligomeric protein structures. Hsp60 has been linked to Alzheimer's disease, coronary artery disease, multiple sclerosis, diabetes, and other autoimmune diseases.

### SPECIFICATION SUMMARY

**Antigen:** Recombinant human Hsp60 expressed in *E. coli*.

**Host Species:** Mouse

**Antibody Class:** IgG1

**Preservatives:** 0.09% sodium azide

**Other additives:** 50% glycerol

### SPECIFICITY

This antibody recognizes human, mouse, rat, rabbit, bovine, canine, porcine, ovine, guinea pig, hamster, chicken, monkey, *Xenopus*, and *Drosophila* Hsp60 (60 kDa). It does not cross-react with bacterial or yeast Hsp60. The epitope recognized is within aa 383-447 of human Hsp60.

### APPLICATIONS

**Immunoblotting:** use at 0.1-1ug/ml. A band of ~60 kDa is detected.

**Immunoprecipitation:** use at 12.5ug/ml

**Flow cytometry:** use at 10ug/ml

These are recommended concentrations.

User should determine optimal concentrations for their application.

**Positive control:** Heat-shocked 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. Avoid repeated freezing and thawing.

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