

## Anti-Hsp90 Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 11113 (clone 4F3.E8)

**Size:** 100ug Protein G-purified antibody in PBS, pH 7.4.

### BACKGROUND

Hsp90 is an abundantly and ubiquitously expressed heat shock protein found in all eukaryotic cells. It exists in two principal forms,  $\alpha$  and  $\beta$ , which share 85% sequence homology. Both forms are expressed in the cytosol. Hsp90 $\alpha$  exists primarily as a homodimer while Hsp90 $\beta$  exists mainly as a monomer. Hsp90 plays a role in folding, assembly, maturation, and stabilization of specific proteins as a key component of a chaperone complex. Most of the Hsp90-regulated proteins that have been identified are involved in cell signaling; kinases, v-Src, Wee1, c-Raf, and p53 are some examples. When bound to ATP, Hsp90 interacts with co-chaperones Cdc37, p23, and various immunophilin-like proteins to form complexes that stabilize and protect target proteins from proteasomal degradation.

### SPECIFICATION SUMMARY

**Host Species:** Mouse

**Antigen:** Recombinant human Hsp90 purified from *E. coli*.

**Antibody Class:** IgG2a

**Preservatives:** None.

### SPECIFICITY

This antibody recognizes human, mouse, and rat Hsp90 $\alpha$  and  $\beta$ . Other species have not been tested.

### APPLICATIONS

**Immunoblotting:** use at 0.5-1ug/ml. A band of ~90 kDa is detected.

**ELISA**

**Immunohistochemistry/ Immunocytochemistry**

**Immunoprecipitation**

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.*