

## Anti-Hsp90 alpha Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 11102 (clone D7alpha)

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

### BACKGROUND

Hsp90 and the 94 kDa glucose-regulated protein, Grp94, are major molecular chaperones of the cytosol and endoplasmic reticulum. In mammalian cells, there are at least two Hsp90 isoforms, Hsp90 $\alpha$  and Hsp90 $\beta$ , which are encoded by separate genes. All known members of the Hsp90 family are highly conserved, especially in the N-terminal and C-terminal regions. In the absence of stress, Hsp90 is an essential component of cellular processes such as hormone signaling and cell cycle control. Several regulatory proteins such as steroid receptors, cell cycle kinases and p53 have been identified as substrates of Hsp90.

### SPECIFICATION SUMMARY

**Antigen:** Full-length Hsp90 purified from chicken brain

**Host Species:** Mouse

**Antibody Class:** IgG1

**Preservatives:** 0.09% sodium azide

**Other Additives:** 50% glycerol

### SPECIFICITY

This antibody recognizes human, mouse, rat, rabbit, bovine, porcine, and chicken Hsp90 $\alpha$  (90 kDa).

### APPLICATIONS

*Immunoblotting:* use at 1-5ug/ml. A band of ~90 kDa is detected.

*Immunoprecipitation:* 5ug on 20ul Protein A-Sepharose + 100ul sample.

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.

### REFERENCE

Schuh S et al. 1985 J Biol Chem 260: 14292-14296; Sullivan WP et al. 1985 Biochemistry 24: 4214-4222.

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