

# QED Bioscience Inc.

ADVANCED RESEARCH TECHNOLOGIES

## Anti-Hsp70/Hsc70 Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 11099 (clone BB70)

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

### BACKGROUND

Members of the Hsp70 family are molecular chaperones that function in protein folding, transport, maturation and degradation by binding to nascent polypeptide chains as well as partially folded protein intermediates and preventing their aggregation and misfolding. The 70 kDa heat shock cognate protein, Hsc70, is closely related biochemically and biologically to Hsp70.

### SPECIFICATION SUMMARY

**Antigen:** Chicken Hsp70/Hsp90 complex.

**Host Species:** Mouse

**Antibody Class:** IgG2a

**Preservatives:** None. Available on request.

### SPECIFICITY

This antibody detects 72 and 73 kDa proteins corresponding to the predicted molecular masses of Hsp70 and Hsc70, respectively, on immunoblots of human,

mouse, rat, rabbit, monkey, hamster, guinea pig, dog, bovine, sheep, pig, chicken yeast, fish, and *Xenopus* samples. This antibody recognizes the inducible and constitutive forms of Hsp70 and does not cross-react with Hsp90.

### APPLICATIONS

*Immunoblotting:* use at 1ug/ml.

*Immunohistochemistry:* use at 5ug/ml.

These are recommended concentrations.

User should determine optimal concentrations for their application.

*Positive control:* Canine MDCK 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.*