

QED Bioscience Inc.

ADVANCED RESEARCH TECHNOLOGIES

Anti-Hsp70 Polyclonal Antibody

ORDERING INFORMATION

Catalog No.: 11108

Size: 100ul whole rabbit serum.

BACKGROUND

Hsp70 binds ATP with high affinity and possesses a weak ATPase activity which can be stimulated by binding to unfolded proteins and synthetic peptides. Hsp70 recognizes and binds to nascent polypeptide chains as well as partially folded intermediates of proteins preventing their aggregation and misfolding. The binding of ATP triggers a critical conformational change leading to the release of the bound protein. The ability of Hsp70 to undergo cycles of binding and release from hydrophobic stretches of partially unfolded proteins is the basis for their role in a variety of intracellular functions such as protein synthesis, protein folding and oligomerization and protein transport.

SPECIFICATION SUMMARY

Antigen: Full-length Hsp70 protein.

Host Species: Rabbit

Preservatives: None.

SPECIFICITY

This antibody recognizes human, mouse, rat, beluga, bovine, canine, fish, guinea pig, hamster, monkey, porcine, ovine, and coral Hsp70.

APPLICATIONS

Immunoblotting: use at 1:10,000-1:25,000 (ECL). A band of ~70 kDa is detected.

Immunoprecipitation: use at 1:100 dilution

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. Avoid repeated freezing and thawing.

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