

Anti-Hsp70/Hsc70 Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 11095 (clone N27F3-4) **Size:** 100ug in PBS, pH 7.4, purified by Protein G affinity chromatography.

BACKGROUND

Hsp70 genes, members of a multigene family, encode heat-inducible 70kDa heatshock proteins that function as molecular chaperones. They have been identified in most organelles of eukaryotic cells as well as in bacteria. The N-terminus of Hsp70 binds ATP with high affinity and the Cterminus binds proteins and polypeptides. Hsp70s bind nascent polypeptides as well as partially folded intermediates of proteins, thus preventing their aggregation and/or misfolding. Binding of ATP triggers a conformational change that results in the release of bound protein. Hsp70s function in protein synthesis, protein folding and oligomerization, and protein transport.

SPECIFICATION SUMMARY

Antigen: Recombinant Hsp70/Hsc70Host Species: MouseAntibody Class: IgG1Preservatives: 0.1% sodium azide.

SPECIFICITY

This antibody recognizes inducible and constitutive Hsp70/Hsc70 of human, mouse, rat, rabbit, monkey, guinea pig, hamster, chicken, bovine, canine, ovine, porcine, fish, *Xenopus*, *Drosophila*, *C. elegans*, and plants. The epitope is in the region of amino acids 503-640 of human Hsp70.

APPLICATIONS

Immunoblotting: use at 1ug/ml. A band of 72-73kDa is detected.
Immunohistochemistry: use at 1-10ug/ml.
Immunoprecipitation: 1-10ug/ml.
Flow cytometry: use at 10ug/ml.
These are recommended concentrations.
User should determine optimal concentrations for their application.
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 4°C. Precipitation may occur upon freezing and thawing.

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

QED Bioscience, Inc. 10919 Technology Place, Suite C San Diego, CA 92127 Toll Free 800.929.2114 Phone 858.675.2405 Fax 858.592.1509 info@gedbio.com Visit our website for additional product information and to order online.