

# **Anti-Hsc70/Hsp73 Monoclonal Antibody**

#### ORDERING INFORMATION

**Catalog No.:** 11119 (clone 1F2-H5) **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. When cells are subjected to metabolic stress, Hsp70 is expressed. Hsp70 shares >90% sequence homology with Hsc70. Constitutively expressed Hsc70 forms a stable complex with the highly inducible Hsp70 in cells following heat shock. This interaction is regulated by ATP. Research on Hsc70 suggests that it plays a role in facilitating the recovery of centrosomal structure and function after heat shock.

#### **SPECIFICATION SUMMARY**

Antigen: Human Hsc70 Host Species: Mouse Antibody Class: IgG2a

Preservatives: None. Available on

request.

#### **SPECIFICITY**

This antibody recognizes human, mouse, and rat Hsc70. Other species have not been tested. It does not cross-react with Hsp70.

### <u>APPLICATIONS</u>

Immunoblotting: use at 1ug/ml. A band of ~73kDa is detected.

ELISA: use at 1-10ug/ml

Immunohistochemistry: use at 1-10ug/ml.

Immunoprecipitation: 1-10ug/ml.

These are recommended concentrations.

User should determine optimal concentrations for their application.

## **DILUTION INSTRUCTIONS**

Positive control: HeLa cell lysate.

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.