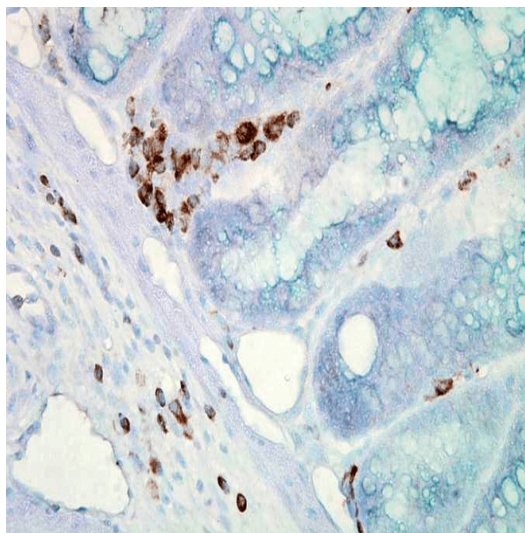
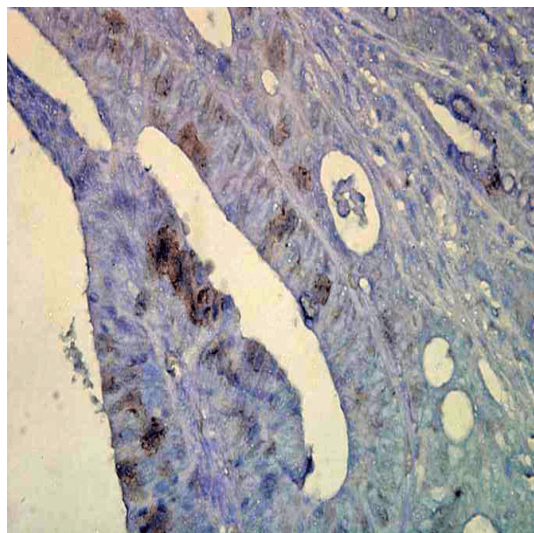
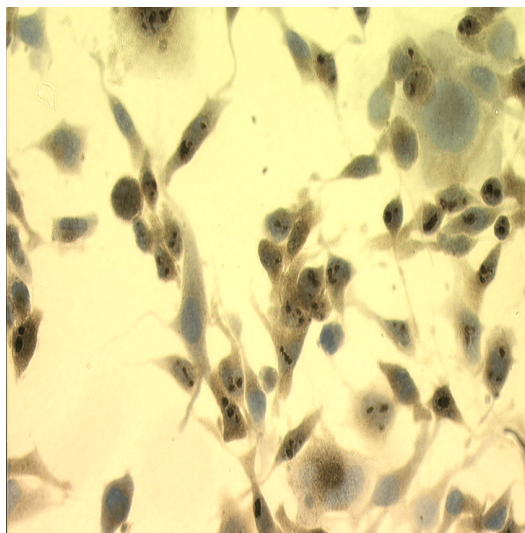
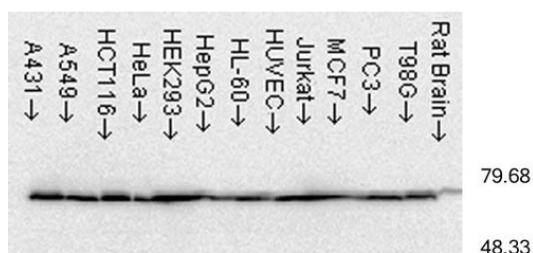


# Hsp70 Antibody

## Monoclonal Antibody

### Product Information

**Product No.:** 11096  
**Clone:** C92F3A-5  
**Isotype:** Mouse IgG1  
**Storage:** -20°C



## Product Description

### Specificity:

This antibody recognizes Hsp70 of human, mouse, rat, rabbit, monkey, guinea pig, hamster, chicken, bovine, canine, ovine, porcine, fish, Drosophila, and C. elegans and does not cross-react with Hsc70. The epitope is in the region of amino acids 436- 503 of human Hsp70.

### 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 C-terminus binds proteins and polypeptides. Hsp70s bind nascent polypeptides

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410 Axminster Dr, St. Louis, MO 63026

(800) 538-1145

leincoglobal@leinco.com

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.

**Known Reactivity Species:**

Bovine, C. elegans, Canine, Chicken, Fish, Guinea Pig, Hamster, Human, Monkey, Mouse, Ovine, Porcine, Rabbit, Rat

**Format:**

Purified

**Immunogen:**

Human Hsp70 purified from HeLa cells.

**Formulation**

PBS containing 50% glycerol and 0.1% azide

**Storage and Stability**

This antibody is stable for at least one (1) year at -20°C.

**Product Preparation**

Purified by Protein G affinity chromatography

**Applications**

**Applications and Recommended Usage (Quality Tested By Leinco):**

Immunoblotting: 1ug/mL. A band of 70kDa is detected. Immunoblotting of Hsp70 in cell lysates from human cancer cell lines with #11096.

Immunohistochemistry: 1-10ug/mL Immunohistochemical staining of inflammatory cells in human colon tissue with #11096.

Immunoprecipitation: 1-10ug/

mLELISA: 1-10ug/mL Flow cytometry: 10ug/mL

These are recommended concentrations. User should determine optimal concentrations for their application.

Positive control: HeLa cell lysate.

**Country of Origin**

USA