

## Hsp70 Rabbit monoclonal antibody

Catalog: BS9807M

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

The HSP 70 family is composed of four highly conserved proteins: HSP 70, HSC 70, GRP 75 and GRP 78. HSP 70 expression is strongly induced in response to heat stress. HSP 70 and HSC 70 play key roles in the cytosolic endoplasmic reticulum and mitochondrial import machinery and are found in both the cytosol and nucleus of mammalian cells. GRP 78 is localized in the endoplasmic reticulum, where it receives imported secretory proteins and is involved in the folding and translocation of nascent peptide chains. GRP 75 expression is restricted to the mitochondrial matrix and aids in the translocation and folding of nascent polypeptide chains of both nuclear and mitochondrial origin. It has been postulated that members of the HSP 70 family act as force-generating motors, relying on the hydrolysis of ATP for their activity

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 70 kDa

### Swiss-Prot:

P0DMV9/P0DMV8

### Purification&Purity:

Protein A affinity purified

### Applications:

WB: 1:1000-1:5000

IHC/ICC/IF: 1:50-1:200

FC: 1:10-1:100

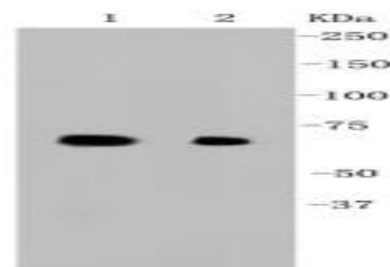
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

This antibody detects endogenous levels of Hsp70 and does not cross-react with related proteins.

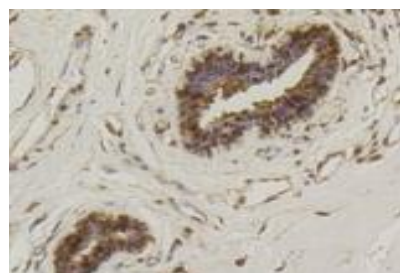
### DATA:



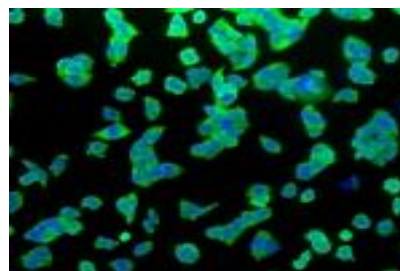
Western blot (WB) analysis of Hsp70 Rabbit mAb at 1:1000 dilution

Lane1:MCF-7 whole cell lysate

Lane2:HCT116 whole cell lysate



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Hsp70 antibody. Counter stained with hematoxylin.



ICC staining Hsp70 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton \*100/PBS.

### Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416, USA.

Email: [info@bioworld.com](mailto:info@bioworld.com)

Tel: 6123263284

Fax: 6122933841

### Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

Email: [info@biogot.com](mailto:info@biogot.com)

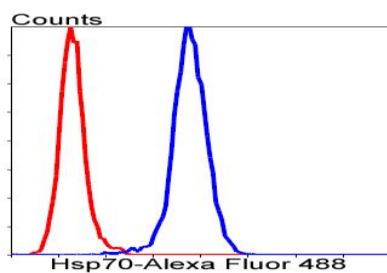
Tel: 0086-025-68037686

Fax: 0086-025-68035151



## PRODUCT DATA SHEET

Bioworld Technology, Inc.



**Note:**

For research use only, not for use in diagnostic procedure.

Flow cytometric analysis of Hela cells with Hsp70 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

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MN 55416, USA.

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Fax: 6122933841

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