Product datasheet

# Anti-HSP70 Antibody (Clone#BRM-22)

**Catalog Number: *BM0368***

BOSTER®
antibody and ELISA experts
**BOSTER BIOLOGICAL TECHNOLOGY**
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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## Basic Information

| | |
|---|---|
| **Product Name** | Anti-HSP70 Antibody (Clone#BRM-22) |
| **Gene Name** | HSPA1A |
| **Source** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1 |
| **Species Reactivity** | human, mouse, rat |
| **Tested Application** | WB, IHC |
| **Contents** | 200 ug/ml antibody with PBS， 0.02% NaN3 , 1mg BSA |
| **Immunogen** | HSP70 isolated from bovine brain. |
| **Concentration** | 200ug/ml |
| **Purification** | Ascites |
| **Observed MW** | 70 kDa |
| **Dilution Ratios** | Western blot (WB): 1:500-2000<br>Immunohistochemistry (IHC): 1:50-400<br>(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. |

## Storage

12 months from date of receipt，-20℃ as supplied.

## Background Information

Heat-shock proteins, or stress proteins, are expressed in response to heat shock and a variety of other stress stimuli including oxidative free radicals and toxic metal ions. Sargent et al. identified a duplicated HSP70 locus in the class III region of the major histocompatibility complex on 6p21.3. A duplicated locus encoding the major heat shock-induced protein HSP70 is located in the major histocompatibility complex(MHC) class III region 92 kilobases(kb) telomeric to the C2 gene. The 70-kd mammalian heat shock proteins are structurally and functionally related to the uncoating protein that releases clathrin triskelia from coated vesicles.

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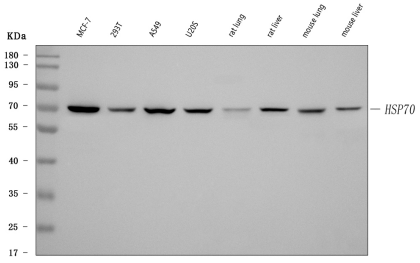
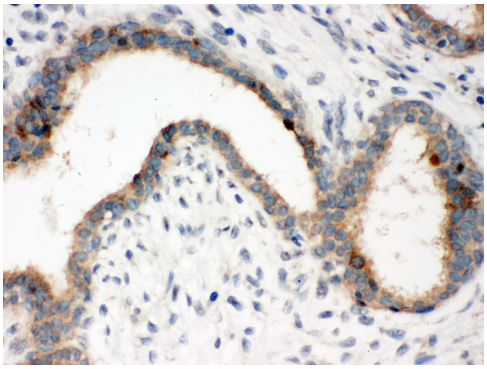
## Reference

Anti-HSP70 Antibody (Clone#BRM-22)被引用在13文献中。

## Selected Validation Data




Western blot analysis of anti- HSP70 antibody (BM0368). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: MCF-7 whole cell lysates,
Lane 2: 293T whole cell lysates,
Lane 3: A549 whole cell lysates,
Lane 4: U20S whole cell lysates,
Lane 5: rat lung tissue lysates,
Lane 6: rat liver tissue lysates,
Lane 7: mouse lung tissue lysates,
Lane 8: mouse liver tissue lysates.
Use mouse anti- HSP70 1:1000, probed with a goat anti-mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001). A specific band was detected for HSP70 at approximately 70KD. The expected band size for HSP70 is at 70KD.



IHC analysis using anti- HSP70 antibody (BM0368). detected in paraffin-embedded section of human breast cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.