

# Product Datasheet

## HspA1B Antibody - BSA Free

### NBP2-16896

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Updated 3/18/2025 v.20.1

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**NBP2-16896**

HspA1B Antibody - BSA Free

**Product Information**

|                                |  |
|--------------------------------|--|
| <b>Unit Size</b>               | 0.1 ml   |
| <b>Concentration</b>           | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| <b>Storage</b>                 | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.   |
| <b>Clonality</b>               | Polyclonal   |
| <b>Preservative</b>            | 0.025% Proclin 300   |
| <b>Isotype</b>                 | IgG  |
| <b>Purity</b>                  | Antigen Affinity-purified  |
| <b>Buffer</b>                  | PBS, 20% Glycerol  |
| <b>Target Molecular Weight</b> | 70 kDa   |

**Product Description**

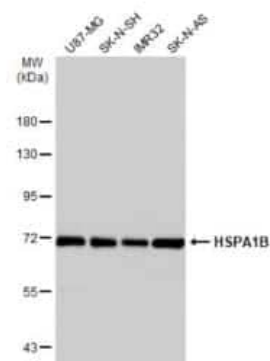
|                         |  |
|-------------------------|--|
| <b>Host</b>             | Rabbit   |
| <b>Gene ID</b>          | 3304   |
| <b>Gene Symbol</b>      | HSPA1B   |
| <b>Species</b>          | Human, Mouse, Rat, Zebrafish   |
| <b>Reactivity Notes</b> | Xenopus laevis (89%).  |
| <b>Immunogen</b>        | Recombinant protein encompassing a sequence within the center region of human HspA1B. The exact sequence is proprietary. |

**Product Application Details**

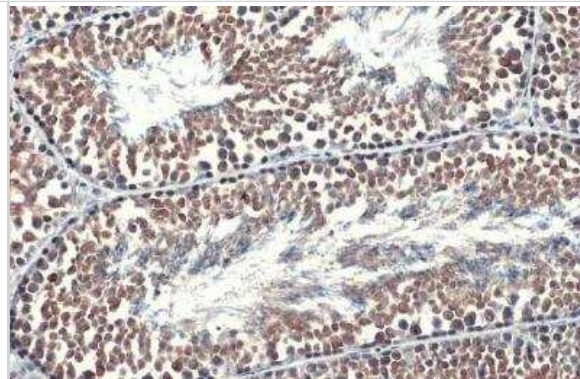
|                              |   |
|------------------------------|---|
| <b>Applications</b>          | Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunohistochemistry Whole-Mount  |
| <b>Recommended Dilutions</b> | Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence Assay dependent, Immunohistochemistry-Paraffin 1:100-1:1000, Immunohistochemistry Whole-Mount Assay dependent |

**Images**

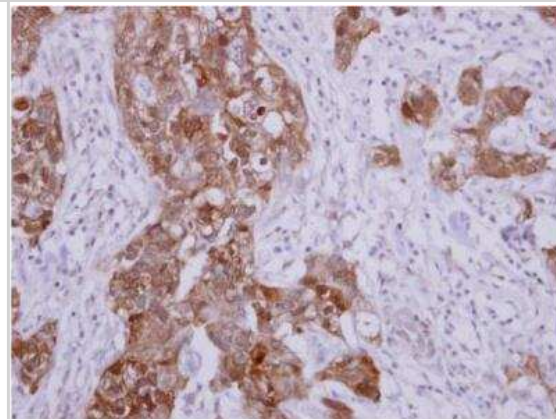
Western Blot: HspA1B Antibody [NBP2-16896] - Various whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Hsp70 antibody diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



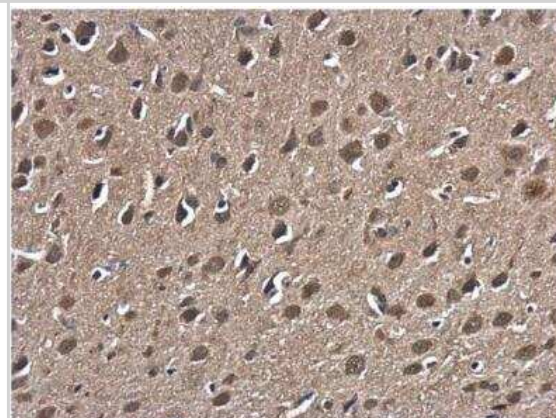
Immunohistochemistry-Paraffin: HspA1B Antibody [NBP2-16896] - Mouse testis. Hsp70 stained by Hsp70 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



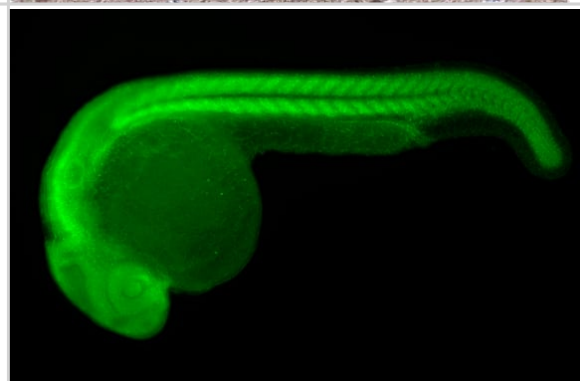
Immunohistochemistry-Paraffin: HspA1B Antibody [NBP2-16896] - Human breast cancer. Hsp70 antibody dilution: 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



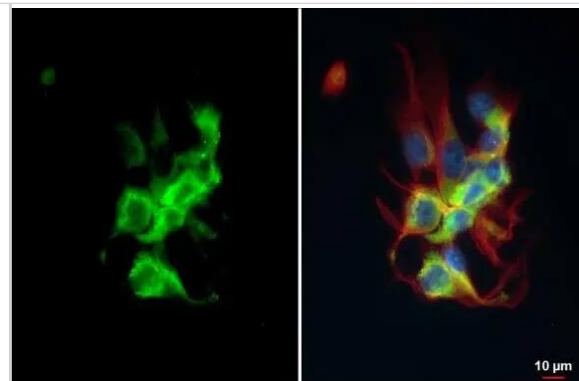
Immunohistochemistry-Paraffin: HspA1B Antibody [NBP2-16896] - Rat brain. Hsp70 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



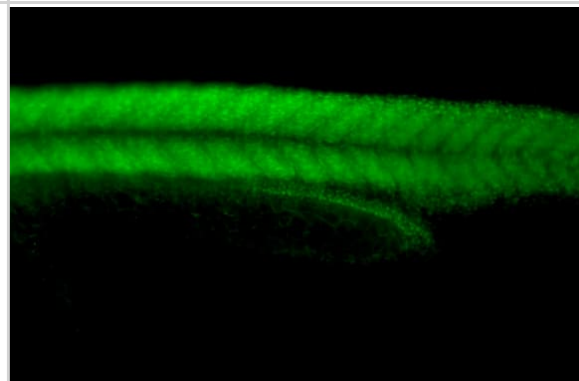
Immunohistochemistry Whole-Mount : HspA1B Antibody [NBP2-16896] - Paraformaldehyde-fixed 1 day-post-fertilization zebrafish embryo. Green: Hsp70 stained by Hsp70 antibody diluted at 1:100. Antigen Retrieval: Tris-HCl buffer, pH 9.0, 20 min at 70°C



**Immunocytochemistry/ Immunofluorescence:** HspA1B Antibody [NBP2-16896] - HspA1B antibody detects HspA1B protein at cytoplasm by immunofluorescent analysis. Sample: U87-MG cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: HspA1B stained by HspA1B antibody (NBP2-16896) diluted at 1:500. Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [GT114] diluted at 1:1000. Blue: Fluoroshield with DAPI .



**Immunohistochemistry Whole-Mount:** HspA1B Antibody [NBP2-16896] - Paraformaldehyde-fixed 1 day-post-fertilization zebrafish embryo. Green: Hsp70 stained by Hsp70 antibody diluted at 1:100. Antigen Retrieval: Tris-HCl buffer, pH 9.0, 20 min at 70°C



## Publications

Onay Ucar E, Sengelen A, Mertoglu Kamali E Hsp27, Hsp60, Hsp70, or Hsp90 depletion enhances the antitumor effects of resveratrol via oxidative and ER stress response in human glioblastoma cells *Biochemical Pharmacology* 2023-02-01 [PMID: 36603687] (WB, Human)

Details:  
1:1000 WB dilution

Kiyga E, Adiguzel Z, Onay Ucar E Temozolomide increases heat shock proteins in extracellular vesicles released from glioblastoma cells *Molecular biology reports* 2022-06-25 [PMID: 35752701] (WB, Human)

Xia S, Li X, Xu S et al. Sublethal heat treatment promotes breast cancer metastasis and its molecular mechanism revealed by quantitative proteomic analysis *Aging* 2022-02-12 [PMID: 35150481] (IF/IHC, Mouse)



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### **Products Related to NBP2-16896**

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|                    |   |
|--------------------|---|
| HAF008             | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160             | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891         | Rabbit IgG Isotype Control                          |
| H00003304-Q01-10ug | Recombinant Human HspA1B GST (N-Term) Protein       |

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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