

# Product Datasheet

## HSPA8/HSC71/Hsc70 Antibody (1B5)

### NBP1-97868-0.05mg

Unit Size: 0.05 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NBP1-97868-0.05mg**

HSPA8/HSC71/Hsc70 Antibody (1B5)

Product Information	
Unit Size	0.05 mg
Concentration	1.0 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1B5
Preservative	0.09% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS (pH 7.2) and 50% Glycerol
Target Molecular Weight	73 kDa

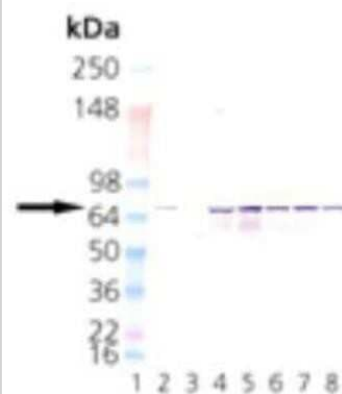
Product Description	
Host	Rat
Gene ID	3312
Gene Symbol	HSPA8
Species	Human, Mouse, Rat, Porcine, Bovine, Canine, Chicken, Guinea Pig, Hamster, Monkey, Rabbit, Sheep
Reactivity Notes	Turtle (100%).
Immunogen	Native hamster Hsc70 (Hsp73).

Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Electron Microscopy, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Simple Western reported by internal validation, Flow Cytometry 1:10-1:1000, ELISA, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Electron Microscopy 1:10-1:500
Application Notes	In Simple Western internal validation: Rat B103 cells as sample; separated by size; antibody dilution of 1:25; matrix was 12-230 kDa; detected by Chemiluminescence.

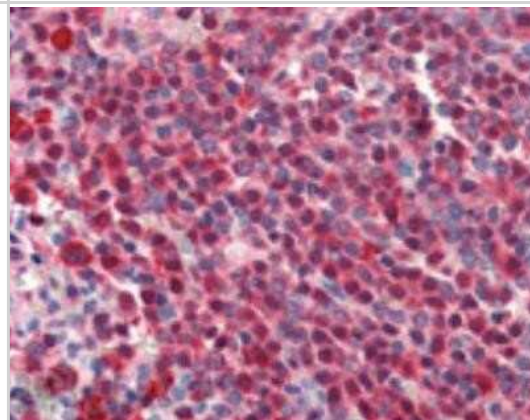


**Images**

Western Blot: HSPA8/HSC71/Hsc70 Antibody (1B5) [NBP1-97868] - Analysis of HSC70/HSP73: Lane 1: MW marker, Lane 2: HSC70/HSP73 (bovine), (recombinant) Lane 3: HSP70/HSP72 (human), (recombinant) Lane 4: 3T3, (Cell Lysate) Lane 5: PC-12, (Cell Lysate), Lane 6: CHO-K1 Cell Lysate, Lane 7: GPC-16 Cell Lysate, Lane 8: HeLa, (Cell Lysate).



Immunohistochemistry-Paraffin: HSPA8/HSC71/Hsc70 Antibody (1B5) [NBP1-97868] - Analysis of human spleen tissue stained with HSC70/HSP73, mAb (1B5) at 10ug/ml.



## Publications

Shao L, Ning K, Wang J et al. The large nonstructural protein (NS1) of the human bocavirus 1 (HBoV1) directly interacts with Ku70, which plays an important role in virus replication in human airway epithelia *Journal of virology* 2021-12-08 [PMID: 34878919] (Human)

Li PP, Itoh N, Watanabe M et al. Association of simian virus 40 vp1 with 70-kilodalton heat shock proteins and viral tumor antigens. *J Virol.* 2009-01-01 [PMID: 18945763]

Chen S, Brown IR. Neuronal expression of constitutive heat shock proteins: implications for neurodegenerative diseases. *Cell Stress Chaperones.* 2007-01-01 [PMID: 17441507]

Lu HA, Sun TX, Matsuzaki T et al. Heat shock protein 70 interacts with aquaporin-2 and regulates its trafficking. *J Biol Chem.* 2007-09-01 [PMID: 17636261]

Tetzlaff J, Tanzer L, Jones KJ et al. Exogenous androgen treatment delays the stress response following hamster facial nerve injury. *J Neuroendocrinol.* 2007-05-01 [PMID: 17425613]

Meinander A, Soderstrom TS, Kaunisto A et al. Fever-like hyperthermia controls T Lymphocyte persistence by inducing degradation of cellular FLIPshort. *J Immunol.* 2007-03-01 [PMID: 17339495]

Suttitanamongkol S, Polanowska-Grabowska R, Gear AR et al. Heat-shock protein 90 complexes in resting and thrombin-activated platelets. *Biochem Biophys Res Commun.* 2002-09-01 [PMID: 12220519]

Bailey CK, Andriola IF, Kampinga HH et al. Molecular chaperones enhance the degradation of expanded polyglutamine repeat androgen receptor in a cellular model of spinal and bulbar muscular atrophy. *Hum Mol Genet.* 2002-03-01 [PMID: 11875046]

Yamano T, Murata S, Shimbara N et al. Two distinct pathways mediated by PA28 and hsp90 in major histocompatibility complex class I antigen processing. *J Exp Med.* 2002-07-01 [PMID: 12119343]

Brighty DW, Jassal SR. The synthetic peptide P-197 inhibits human T-cell leukemia virus type 1 envelope-mediated syncytium formation by a mechanism that is independent of Hsc70. *J Virol.* 2001-11-01 [PMID: 11581416]

Sainis L, Angelidis C, Pagoulatos GN et al. HSC70 interactions with SV40 viral proteins differ between permissive and nonpermissive mammalian cells. *Cell Stress Chaperones.* 2000-04-01 [PMID: 11147964]





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### **Products Related to NBP1-97868-0.05mg**

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NBP1-75398	Goat anti-Rat IgG (H+L) Secondary Antibody (Pre-adsorbed)
NBP2-21947-0.1mg	Rat IgG2a Isotype Control (2A3)
NBP1-97876-0.05mg	HSPA8/HSC71/Hsc70 Antibody (1B5) [Biotin]

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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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