

Product Datasheet

HSP70/HSPA1A Antibody (BB70) - BSA Free NB110-96427

Unit Size: 0.2 mg

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

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NB110-96427

HSP70/HSPA1A Antibody (BB70) - BSA Free

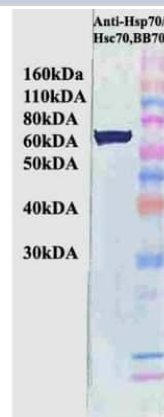
Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	BB70
Preservative	0.09% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	PBS (pH 7.2), 50% Glycerol
Target Molecular Weight	70 kDa

Product Description	
Host	Mouse
Gene ID	3303
Gene Symbol	HSPA1A
Species	Human, Mouse, Rat, Porcine, Bovine, Canine, Chicken, Drosophila, Fish, Guinea Pig, Hamster, Rabbit, Sheep, Xenopus, Yeast
Specificity/Sensitivity	Detects approx 72 (HSP) and approx 73kDa (HSC).
Immunogen	Chicken HSP70/HSP90 complex

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:200, Immunoprecipitation, Immunohistochemistry-Paraffin 1:10-1:500
Application Notes	1 ug/ml of HSP70/HSC70 Antibody was sufficient for detection of HSP70 and HSC70 in 20 ug of heat shocked HeLa cell lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary Antibody.

Images

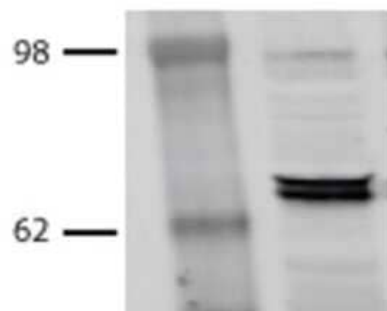
Western Blot: HSP70/HSPA1A Antibody (BB70) [NB110-96427] - Western Blot analysis of Human Cervical cancer cell line (HeLa) lysate showing detection of Hsp70 protein using Mouse Anti-Hsp70 Monoclonal Antibody, Clone BB70 (NB110-96427). Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody (NB110-96427) at 1:1000. Secondary Antibody: HRP Goat Anti-Rat.



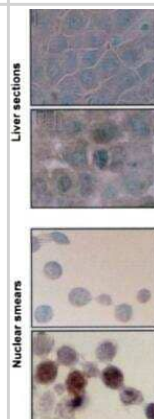
Immunohistochemistry: HSP70/HSPA1A Antibody (BB70) [NB110-96427] - Immunohistochemistry analysis using Mouse Anti-Hsp70 Monoclonal Antibody, Clone BB70 (NB110-96427). Tissue: colon carcinoma. Species: Human. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody (NB110-96427) at 1:10000 for 12 hours at 4C. Secondary Antibody: Biotin Goat Anti-Mouse at 1:2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200 I for 2 minutes at RT. Localization: Inflammatory cells. Magnification: 40x. HSP70/HSPA1A cells stained brown. This image was produced using an amplifying IHC wash buffer. The antibody has therefore been diluted more than is recommended for other applications..



Western Blot: HSP70/HSPA1A Antibody (BB70) [NB110-96427] - analysis of Bovine MDBK cell lysates showing detection of Hsp70 protein using Mouse Anti-Hsp70 Monoclonal Antibody, Clone BB70 . Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody at 1:1000.



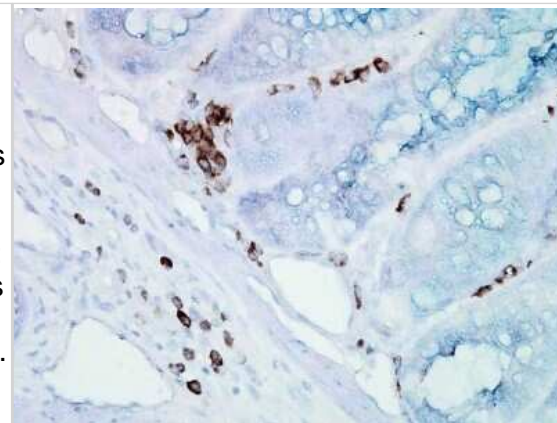
Immunohistochemistry: HSP70/HSPA1A Antibody (BB70) [NB110-96427] - Detection in paraffin embedded liver sections and nuclear sections of rat hepatocytes by staining with BB70. First pictures in series show two hours after exposure to stress, the second shows the control.



Immunohistochemistry-Paraffin: HSP70/HSPA1A Antibody (BB70) [NB110-96427] - Tissue: hepatocytes. Species: Rat. Fixation: Paraffin Embedded. Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody at 1:200. Courtesy of: G. Matic, University of Belgrade, Serbia.



Immunohistochemistry: HSP70/HSPA1A Antibody (BB70) [NB110-96427] - Immunohistochemistry analysis using Mouse Anti-Hsp70 Monoclonal Antibody, Clone BB70 (NB110-96427). Tissue: inflamed colon. Species: Mouse. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody (NB110-96427) at 1:10000 for 12 hours at 4C. Secondary Antibody: Biotin Goat Anti-Mouse at 1:2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200 I for 2 minutes at RT. Localization: Inflammatory cells. Magnification: 40x. Inflammatory cells. HSP70/HSPA1A stained brown. This image was produced using an amplifying IHC wash buffer. The antibody has therefore been diluted more than is recommended for other applications..



Publications

Roths M, Rudolph TE, Krishna S et al. One day of environment-induced heat stress damages the murine myocardium *American Journal of Physiology - Heart and Circulatory Physiology* 2024-10-01 [PMID: 39212770]

Adur MK, Seibert JT, Romoser MR et al. Porcine endometrial heat shock proteins are differentially influenced by pregnancy status, heat stress, and altrenogest supplementation during the peri-implantation period *Journal of animal science* 2022-07-01 [PMID: 35772767]

Rudolph TE, Roach CM, Baumgard LH et al. The impact of Zearalenone on heat-stressed skeletal muscle in pigs *Journal of Animal Science* 2022-08-01 [PMID: 35908787]

Roths M, Freestone A, Rudolph T et al. Environment-induced heat stress causes structural and biochemical changes in the heart *Journal of Thermal Biology* 2023-04-01 [PMID: 37055111]

Seibert, J T, Adur, M K Et al. Differentiating between the effects of heat stress and lipopolysaccharide on the porcine ovarian heat shock protein response1. *J Anim Sci* 2019-12-17 [PMID: 31782954] (IF/IHC, Canine)

Details:

Citation using the Allophycocyanin/Cy7 format of this antibody.



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Products Related to NB110-96427

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)
NBP1-77456PEP	HSP70/HSPA1A Antibody Blocking Peptide

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