

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

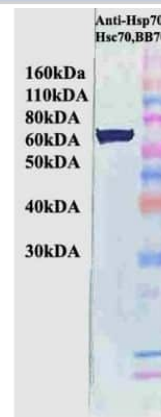
Product Description	
Description	Novus Biologicals Mouse HSP70/HSPA1A Antibody (BB70) - BSA Free (NB110-96427) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-HSP70/HSPA1A Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, 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

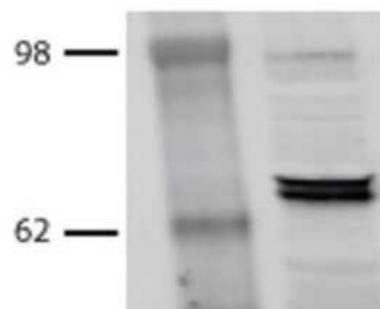
Western Blot: HSP70/HSPA1A Antibody (BB70) [NB110-96427] - Western Blot analysis of Human Cervical cancer cell line (HeLa) lysate showing detection of Hsp70 protein using Mouse Anti-Hsp70 Monoclonal Antibody, Clone BB70 (NB110-96427). Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody (NB110-96427)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



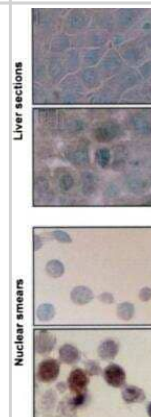
Immunohistochemistry: HSP70/HSPA1A Antibody (BB70) [NB110-96427] - Immunohistochemistry analysis using Mouse Anti-Hsp70 Monoclonal Antibody, Clone BB70 (NB110-96427). Tissue: colon carcinoma. Species: Human. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody (NB110-96427) at 1:10000 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.



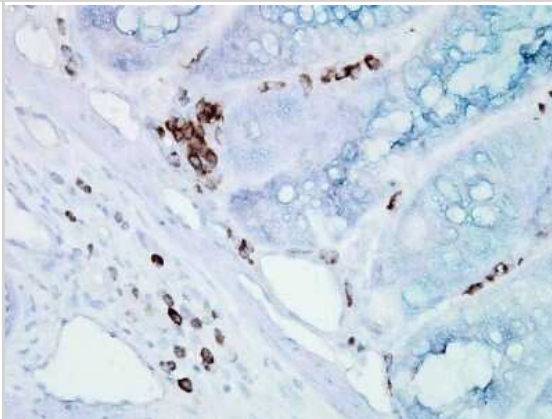
Immunohistochemistry: HSP70/HSPA1A Antibody (BB70) [NB110-96427] - Detection in paraffin embedded liver sections and nuclear sections of rat hepatocytes by staining with BB70. First pictures in series show two hours after exposure to stress, the second shows the control.



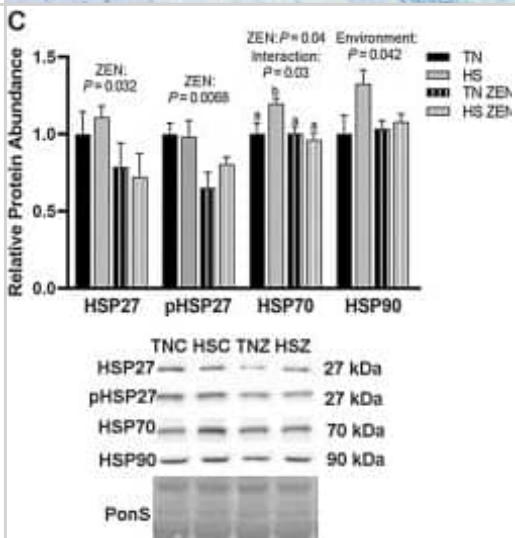
Immunohistochemistry-Paraffin: HSP70/HSPA1A Antibody (BB70) [NB110-96427] - Tissue: hepatocytes. Species: Rat. Fixation: Paraffin Embedded. Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody at 1:200. Courtesy of: G. Matic, University of Belgrade, Serbia.



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..



Effects of 7-d dirual HS and ZEN treatment on glycolytic skeletal muscle. (A) After 7 d of HS, relative protein abundance of MDA- and 4-HNE-modified proteins was similar between all groups. (B) Antioxidant enzymes relative protein abundance were assessed via western blotting. Treatment with ZEN decreased protein abundance in GPX1; however, all other antioxidant enzymes were similar between groups (n = 6–7/group). (C) Relative protein abundance of select HSPs following environmental HS and ZEN exposure. Ponceau S Stain (PonS) was used as a loading control. Values represent the mean +/- SEM. Groups were compared using a 2 × 2 ANOVA; a main effect of environment (P < 0.05) and/or a main effect of zearalenone (ZEN) (P < 0.05) is indicated. Similar groups are indicated by the same letter where appropriate, with differences determined by a Newman–Keuls post hoc test. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35908787>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

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] (Immunohistochemistry, Canine)

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] (Immunohistochemistry, Canine)

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]

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

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)

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