

Product Datasheet

HSP70/HSPA1A Antibody (C92F3A-5) - BSA Free NB110-61582

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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NB110-61582

HSP70/HSPA1A Antibody (C92F3A-5) - 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	C92F3A-5
Preservative	0.1% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS (pH 7.4), 50% Glycerol
Product Description	
Description	Novus Biologicals Mouse HSP70/HSPA1A Antibody (C92F3A-5) - BSA Free (NB110-61582) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-HSP70/HSPA1A Antibody: Cited in 9 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, C. elegans, Chicken, Drosophila, Fish, Guinea Pig, Hamster, Monkey, Rabbit, Sheep
Reactivity Notes	Porcine reactivity reported in (PMID: 23624345).
Specificity/Sensitivity	Detects approx 70kDa. Does not cross-react with HSC70 (HSP73).
Immunogen	Human HSP70
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Electron Microscopy, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunomicroscopy, Microarray, Binding Activity
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry, ELISA, Immunohistochemistry 1:10000, Immunocytochemistry/ Immunofluorescence 1:1000, Immunohistochemistry-Paraffin 1:10000, Immunomicroscopy, Electron Microscopy, Microarray, Binding Activity
Application Notes	1 ug/ml of HSP70 Antibody was sufficient for detection of HSP70 in 20 ug of heat shocked HeLa cell lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary Antibody.



Images

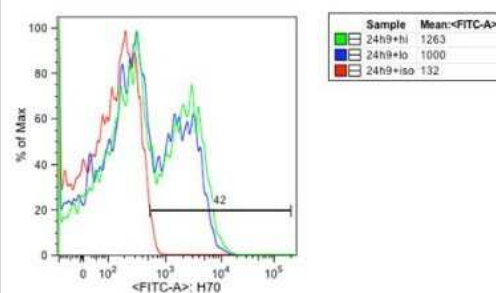
Western Blot: HSP70/HSPA1A Antibody (C92F3A-5) [NB110-61582] - analysis of Human cell lysates from various cell lines showing detection of Hsp70 protein using Mouse Anti-Hsp70 Monoclonal Antibody, Clone C92 . Load: 15 ug protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



Immunohistochemistry: HSP70/HSPA1A Antibody (C92F3A-5) [NB110-61582] - Immunohistochemistry analysis using Mouse Anti-Hsp70 Monoclonal Antibody, Clone C92F3A-5 (NB110-61582). Tissue: colon carcinoma. Species: Human. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody (NB110-61582) 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. This image was produced using an amplifying IHC wash buffer. The antibody has therefore been diluted more than is recommended for other applications..



Flow Cytometry: HSP70/HSPA1A Antibody (C92F3A-5) [NB110-61582] - Fluorescence Activated Cell Sorting analysis using Mouse Anti-Hsp70: FITC Monoclonal Antibody, Clone C92F3A-5 (NB110-61582). Tissue: Heat Shocked CD3+ CD8+ T cells . Species: Mouse. Primary Antibody: Mouse Anti-Hsp70: FITC Monoclonal Antibody (NB110-61582) at 1:1000. Courtesy of: Cheryl Cameron, Vaccine and Gene Therapy Instit. Florida.

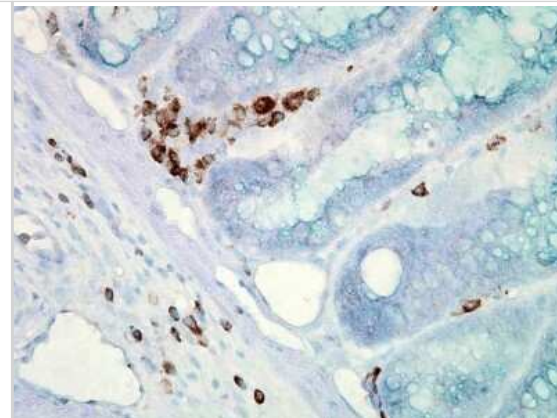


FACS analysis. Anti-Hsp70-FITC staining on heat shock treated CD3+CD8+ T cells

Immunohistochemistry-Paraffin: HSP70/HSPA1A Antibody (C92F3A-5) [NB110-61582] - Tissue: Heat Shocked Melanoma cells. Species: Mouse. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody at 1:1000 for 16 hours at RT. Secondary Antibody: Biotin Goat Anti-Mouse. Courtesy of: Dr. Ewa Malusecka, Maria Sklodowska-Curie Memorial Cancer Center and Inst. Of Oncology, Poland.



Immunohistochemistry: HSP70/HSPA1A Antibody (C92F3A-5) [NB110-61582] - Immunohistochemistry analysis using Mouse Anti-Hsp70 Monoclonal Antibody, Clone C92F3A-5 (NB110-61582). Tissue: colon carcinoma. Species: Mouse. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody (NB110-61582) 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. This image was produced using an amplifying IHC wash buffer. The antibody has therefore been diluted more than is recommended for other applications..



Publications

Dos Santos RS, Veras FP, Ferreira DW, Sant'Anna MB et Al. Involvement of the Hsp70/TLR4/IL-6 and TNF-? pathways in delayed-onset muscle soreness J Neurochem 2020-03-17 [PMID: 32173863]

Ainhoa Martínez-Pizarro, Sara Picó, Arístides López-Márquez, Claudia Rodríguez-López, Elena Montalvo, Mar Alvarez, Margarita Castro, Santiago Ramón-Maiques, Belén Pérez, José J Lucas, Eva Richard, Lourdes R Desviat PAH deficient pathology in humanized c.1066-11G>A phenylketonuria mice Human Molecular Genetics 2024-06-15 [PMID: 38520741]

Sheng-Mou Hou, Chih-Yang Lin, Yi-Chin Fong, Chih-Hsin Tang Hypoxia-regulated exosomes mediate M2 macrophage polarization and promote metastasis in chondrosarcoma Aging (Albany NY) 2023-11-30 [PMID: 37993261]

Midekessa G, Godakumara K, Ord J et al. Zeta Potential of Extracellular Vesicles: Toward Understanding the Attributes that Determine Colloidal Stability ACS Omega 2020-07-14 [PMID: 32685837] (WB, Human)

Vilas A, Yuste-Checa P, Gallego D et Al. Proteostasis regulators as potential rescuers of PMM2 activity Biochim Biophys Acta Mol Basis Dis 2020-03-25 [PMID: 32222543] (WB, Human)

Teixeira M, Gouveia M, Duarte A et al. Regular exercise participation contributes to better proteostasis, inflammatory and vasoactive profiles in patients with hypertension Am. J. Hypertens. [PMID: 31560738]

Samad HA, Konyak YY, Latheef SK et al. Alpha lipoic acid supplementation ameliorates the wrath of simulated tropical heat and humidity stress in male Murrah buffaloes Int J Biometeorol 2019-07-06 [PMID: 31280374]

Pearce SC, Gabler NK, Ross JW. The effects of heat stress and plane of nutrition on metabolism in growing pigs. J Anim Sci 2013-05-01 [PMID: 23463563]

Verma N, Pink M, Rettenmeier AW, Schmitz-Spanke S. Benzo[a]pyrene-mediated toxicity in primary pig bladder epithelial cells: A proteomic approach. J Proteomics 2013-04-25 [PMID: 23624345] (WB, Porcine)



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Products Related to NB110-61582

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]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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