

Product Datasheet

HSP70/HSPA1A Antibody (5A5) - BSA Free NBP1-21690

Unit Size: 0.1 mg

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

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NBP1-21690

HSP70/HSPA1A Antibody (5A5) - BSA Free

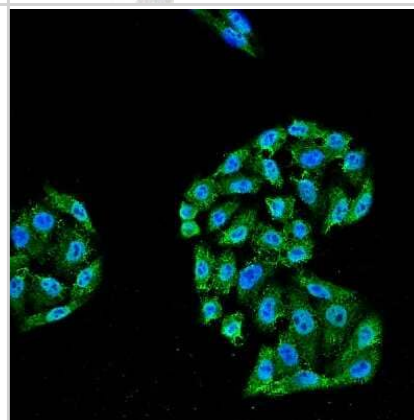
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	5A5
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS (pH 7.2), 50% Glycerol
Product Description	
Description	Novus Biologicals Mouse HSP70/HSPA1A Antibody (5A5) - BSA Free (NBP1-21690) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-HSP70/HSPA1A Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	3303
Gene Symbol	HSPA1A
Species	Human, Mouse, Rat, Amphibian, Chicken, Drosophila, Fish, Yeast
Specificity/Sensitivity	Detects approx 70kDa. May detect HSP70, HSC70, Grp78 and HSP72.
Immunogen	Human recombinant HSP70 overexpressed in E.coli
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Microarray
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:500, Immunoprecipitation 1ug, Immunohistochemistry-Paraffin 1:10-1:500, Microarray
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. Use in Flow reported in scientific literature (PMID:33513976)



Images

Western Blot: HSP70/HSPA1A Antibody (5A5) [NBP1-21690] - analysis of Rat skeletal muscle tissue lysate showing detection of Hsp70 protein using Mouse Anti-Hsp70 Monoclonal Antibody, Clone 5A5 . 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.

201.5→
156→
106→
79.68→
48.33→
37.81→
23.27→
18.19→
14.17→



Immunocytochemistry/Immunofluorescence: HSP70/HSPA1A Antibody (5A5) [NBP1-21690] - Tissue: Cervical Cancer cell line (HeLa). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-HSP70 Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: DAPI (blue) nuclear stain at 1:5000 for 5 min RT. Localization: Nucleus, Cytoplasm. Magnification: 40X.

Publications

Lucas TA, Johns G, Jiang W, Yang L. A population model of chaparral vegetation response to frequent wildfires. *Bulletin of mathematical biology* 2014-08-13 [PMID: 24091781]

Ferguson Bennit HR, Gonda A, Kabagwira J, et al. Natural Killer Cell Phenotype and Functionality Affected by Exposure to Extracellular Survivin and Lymphoma-Derived Exosomes *International journal of molecular sciences* 2021-01-27 [PMID: 33513976] (FLOW, Human)

Balashova N, Chang FJ, Lamothe M, Sun Q, Beuve A. Characterization of a novel type of endogenous activator of soluble guanylyl cyclase. *J Biol Chem* 280:2186-96. 2005-01-01 [PMID: 15509556] (IP)

Fink AL. Chaperone-mediated protein folding. *Physiol. Rev.* 79: 425-449. 1999-01-01 [PMID: 10221986]

Boorstein W R, Ziegelhoffer T, Craig E A. Molecular evolution of the HSP70 multigene family. *J. Mol. Evol.*38 (1): 1-17. 1993-01-01 [PMID: 8151709]

Rothman J. Polypeptide chain binding proteins: catalysts of protein folding and related processes in cells. *Cell* 59: 591-601. 1989-01-01 [PMID: 2573430]

DeLuca-Flaherty et al. Uncoating protein (hsc70) binds a conformationally labile domain of clathrin light chain LCa to stimulate ATP hydrolysis. *Cell* 62: 875-887. 1990-01-01 [PMID: 1975516]

Bork P, Sander C & Valencia A. An ATPase domain common to prokaryotic cell cycle proteins, sugar kinases, actin, and hsp70 heat shock proteins. *Proc. Natl Acad. Sci. USA* 89: 7290-7294. 1992-01-01 [PMID: 1323828]



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Products Related to NBP1-21690

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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