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

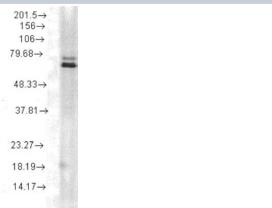
HSP70/HSPA1A Antibody (5A5) - BSA Free

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	lgG1
Purity	Protein G purified
Buffer	PBS (pH 7.2), 50% Glycerol
Product Description	
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, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, 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)
4	

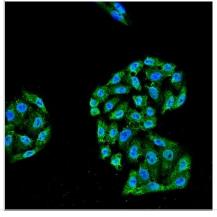


Images

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.



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. Nut1 Acad. Sci. USA 89: 7290-7294. 1992-01-01 [PMID: 1323828]



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NBP1-77455PEP	HSP70/HSPA1A Antibody Blocking Peptide

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