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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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Anti-HSP70 Antibody [C92F3A-5]

Mouse Anti-Human HSP70 Monoclonal IgG
Catalog No. SMC-100



Discovery through partnership | Excellence through quality

Overview

Product Name

HSP70 Antibody

Description

Mouse Anti-Human HSP70 Monoclonal IgG

Species Reactivity

Dog, Human, Monkey, Mouse, Rat, Bovine, Carp (Cypriniformes), Chicken, Fruit Fly (*Drosophila melanogaster*), Guinea Pig (*Cavia porcellus*), Hamster, Nematode (*Caenorhabditis elegans*), Pig, Rabbit, Sheep

Applications

WB, IHC, ICC/IF, ELISA, FCM, FACS, IEM, BI

Antibody Dilution

WB (1:1000), IHC (1:10000), ICC/IF (1:1000), FACS (1:1000); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Human

Immunogen

Human HSP70

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.1% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

C92F3A-5

Isotype

IgG

Specificity

Detects ~70kDa. Does not cross-react with HSC70 (HSP73).

Cite This Product

Mouse Anti-Human HSP70 Monoclonal, Clone C92F3A-5 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-100)

Certificate Of Analysis

1 µg/ml of SMC-100 was sufficient for detection of HSP70 in 20 µg of heat shocked HeLa cell lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

HSP70 1 Antibody, HSP70 2 Antibody, HSP70.1 Antibody, HSP72 Antibody, HSPA1 Antibody, HSPA1A Antibody, HSPA1B Antibody

Research Areas

Cancer, Heat Shock

Cellular Localization

Cytoplasm

Accession Number

NP_005336.3

Gene ID

3303

Swiss Prot

P08107

Scientific Background

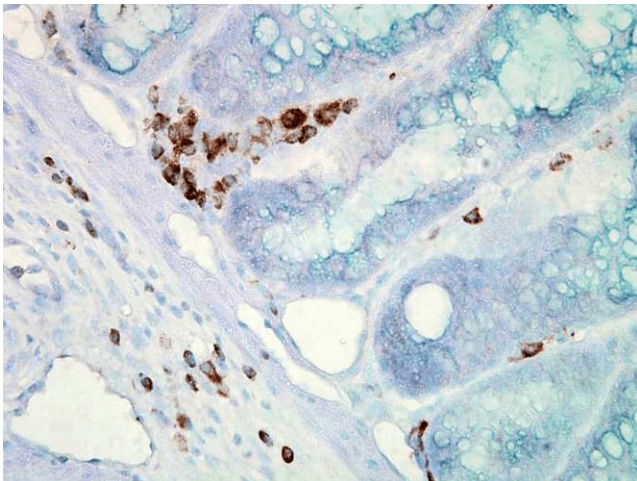
HSP70 genes encode abundant heat-inducible 70-kDa HSPs (HSP70s). In most eukaryotes HSP70 genes exist as part of a multigene family. They are found in most cellular compartments of eukaryotes including nuclei, mitochondria, chloroplasts, the endoplasmic reticulum and the cytosol, as well as in bacteria. The genes show a high degree of conservation, having at least 50% identity (2). The N-terminal two thirds of HSP70s are more conserved than the C-terminal third. HSP70 binds ATP with high affinity and possesses a weak ATPase activity which can be stimulated by binding to unfolded proteins and synthetic peptides (3). When HSC70 (constitutively expressed) present in mammalian cells was truncated, ATP binding activity was found to reside in an N-terminal fragment of 44 kDa which lacked peptide binding capacity. Polypeptide binding ability therefore resided within the C-terminal half (4). The structure of this ATP binding domain displays multiple features of nucleotide binding proteins (5). All HSP70s, regardless of location, bind proteins, particularly unfolded ones. The molecular chaperones of the HSP70 family recognize and bind to nascent polypeptide chains as well as partially folded intermediates of proteins preventing their aggregation and misfolding. The binding of ATP triggers a critical conformational change leading to the release of the bound

substrate protein (6). The universal ability of HSP70s to undergo cycles of binding to and release from hydrophobic stretches of partially unfolded proteins determines their role in a great variety of vital intracellular functions such as protein synthesis, protein folding and oligomerization and protein transport. Looking for more information on HSP70? Visit our new HSP70 Scientific Resource Guide at <http://www.HSP70.com>.

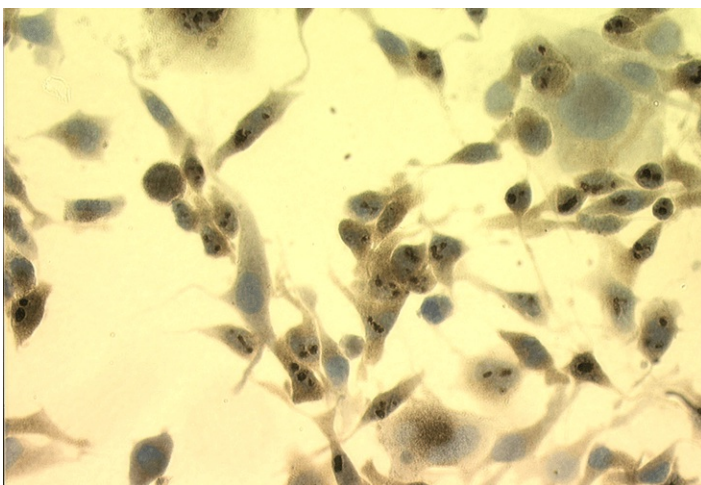
References

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 14. Banduseela V.C., et al. (2009) *Physiol Genomics.* 39(3): 141-159.
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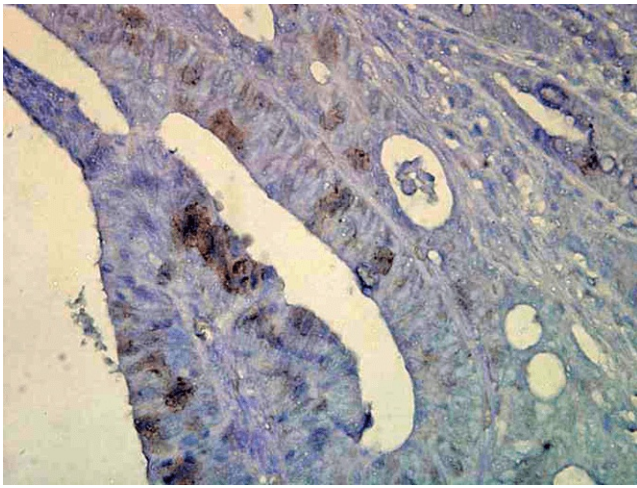
Product Images



Immunohistochemistry analysis using Mouse Anti-Hsp70 Monoclonal Antibody, Clone C92 (SMC-100). Tissue: colon carcinoma. Species: Mouse. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody (SMC-100) at 1:10000 for 12 hours at 4°C. Secondary Antibody: Biotin Goat Anti-Mouse at 1:2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200 µl for 2 minutes at RT. Localization: Inflammatory cells. Magnification: 40x.

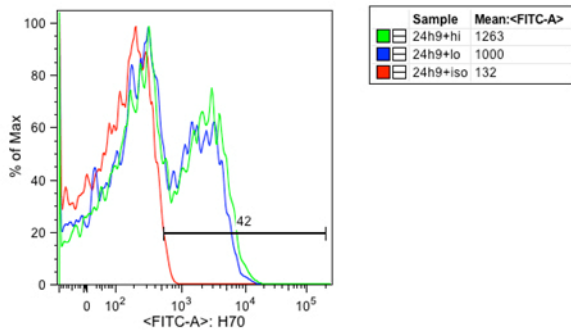
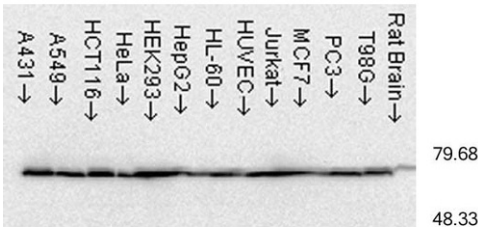


Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Hsp70 Monoclonal Antibody, Clone C92 (SMC-100). Tissue: Heat Shocked Melanoma cells. Species: Mouse. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody (SMC-100) at 1:1000 for 16 hours at RT. Secondary Antibody: Biotin Goat Anti-Mouse. Courtesy of: Dr. Ewa Malusecka, Maria Skłodowska-Curie Memorial Cancer Center and Inst. Of Oncology, Poland.



Immunohistochemistry analysis using Mouse Anti-Hsp70 Monoclonal Antibody, Clone C92 (SMC-100). Tissue: colon carcinoma. Species: Human. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody (SMC-100) at 1:10000 for 12 hours at 4°C. Secondary Antibody: Biotin Goat Anti-Mouse at 1:2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200 µl for 2 minutes at RT. Localization: Inflammatory cells. Magnification: 40x.

Western Blot analysis of Human cell lysates from various cell lines showing detection of Hsp70 protein using Mouse Anti-Hsp70 Monoclonal Antibody, Clone C92 (SMC-100). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Hsp70 Monoclonal Antibody (SMC-100) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



Fluorescence Activated Cell Sorting analysis using Mouse Anti-Hsp70: FITC Monoclonal Antibody, Clone C92 (SMC-100). Tissue: Heat Shocked CD3+ CD8+ T cells . Species: Mouse. Primary Antibody: Mouse Anti-Hsp70: FITC Monoclonal Antibody (SMC-100) 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

Product Citations (51)

Western Blot

Senkyunolide I attenuates oxygen-glucose deprivation/reoxygenation-induced inflammation in microglial cells.

Hu, Y.Y. et al. (2016) Brain Res. [Epub ahead of print].

PubMed ID: 27524398 **Reactivity:** Mouse **Applications:** Western Blot

Effects of Long-Term Exposure to 60 GHz Millimeter-Wavelength Radiation on the Genotoxicity and Heat Shock Protein (Hsp) Expression of Cells Derived from Human Eye.

Koyama, S. et al. (2016) Int J Environ Res Public Health. 13(8). pii: E802.

PubMed ID: 27509516 **Reactivity:** Human **Applications:** Western Blot

Twenty Four-Hour Exposure to a 0.12 THz Electromagnetic Field Does Not Affect the Genotoxicity, Morphological Changes, or Expression of Heat Shock Protein in HCE-T Cells.

Koyama, S. et al. (2016) Int J Environ Res Public Health. 13(8). pii: E802.

PubMed ID: **Reactivity:** Human **Applications:** Western Blot

Heat Shock Factor 1 is a Substrate for p38 Mitogen-Activated Protein Kinases.

Dayalan Naidu, S. et al. (2016) Mol Cell Biol. [Epub ahead of print]

PubMed ID: 27354066 **Reactivity:** Human **Applications:** Western Blot

Expression of Heat Shock Proteins in Human Fibroblast Cells under Magnetic Resonant Coupling Wireless Power Transfer.

Mizuno, K., Shinohara, N. and Miyakoshi, J. (2015) Energise. 8(10): 12020-12028.

PubMed ID: **Reactivity:** Human **Applications:** Western Blot

Critical Illness Myopathy: Understanding different effects on muscle fibre function.

Ogilvie, H. (2015) Karolinska Institutet. PhD Dissertation.

PubMed ID: **Reactivity:** Rat **Applications:** Western Blot

Heat shock protein 70 regulates degradation of the mumps virus phosphoprotein via the ubiquitin-proteasome pathway.

Kato, H. et al. (2014) J Virol. 89(6):3188-99.

PubMed ID: 25552722 **Reactivity:** Human **Applications:** Western Blot

Heat-induced expression of the immediate-early gene IER5 and its involvement in the proliferation of heat-shocked cells.

Ishikawa, Y. and Sakurai, H. (2014) FEBS J. 282(2):332-40.

PubMed ID: 25355627 **Reactivity:** Human **Applications:** Western Blot

Prostaglandin E Synthase Interacts with Inducible Heat Shock Protein 70 After Heat Stress in Bovine Primary Dermal Fibroblast Cells.

Richter, C., Viergutz, T., Schwerin, M. and Weitzel, J.M. (2014) Cytometry A. 87(1):61-7.

PubMed ID: 25412999 **Reactivity:** Bovine **Applications:** Western Blot

Inhibition of autophagy, lysosome and VCP function impairs stress granule assembly.

Seguin, S.J. et al. (2014) Cell Death Differ. 21(12):1838-51.

PubMed ID: 25034784 **Reactivity:** Human **Applications:** Western Blot

Fasting Enhances TRAIL-Mediated Liver Natural Killer Cell Activity via HSP70 Upregulation.

Dang, V.T.A. et al. (2014) PLoS One. 9(10): e110748.

PubMed ID: 25356750 **Reactivity:** Mouse **Applications:** Western Blot

Direct binding of the Alu binding protein dimer SRP9/14 to 40S ribosomal subunits promotes stress granule formation and is regulated by Alu RNA

Berger, A. et al. (2014) Nucleic Acids Res. 42(17):11203-17.

PubMed ID: 25200073 **Reactivity:** Human **Applications:** Western Blot

Therapeutic Inducers of the HSP70/HSP110 Protect Mice Against Traumatic Brain Injury.

Eroglu, B. et al. (2014) J Neurochem. 130(5):626-41.

PubMed ID: 24903326 **Reactivity:** Mouse **Applications:** Western Blot

A cardiopulmonary bypass with deep hypothermic circulatory arrest rat model for the investigation of the systemic inflammation response and induced organ damage.

Engels, M. et al. (2014) J Inflamm. 11(26).

PubMed ID: 25400510 **Reactivity:** Rat **Applications:** Western Blot

Moderate Alcohol Induces Stress Proteins HSF1 and hsp70 and Inhibits Proinflammatory Cytokines Resulting in Endotoxin Tolerance.

Muralidharan, S. et al. (2014) J Immunol. 193(4):1975-87.

PubMed ID: 25024384 **Reactivity:** Human **Applications:** Western Blot

Masseter muscle myofibrillar protein synthesis and degradation in an experimental critical illness myopathy model.

Akkad, H., Corpeno, R., Larsson L. (2014) PLoS One. 9(4): e92622.

PubMed ID: 24705179 **Reactivity:** Rat **Applications:** Western Blot

Structure-Activity Relationships for Withanolides as Inducers of the Cellular Heat-Shock Response.

Wijeratne, E.M., et al. (2014) J Med Chem. 57(7):2851-63.

PubMed ID: 24625088 **Reactivity:** Mouse **Applications:** Western Blot

Detection of constitutive and inducible HSP70 proteins in formalin fixed human brain tissue.

Preusse-Prange, A., Modrow, J.H., Schwark, T., von Wurmb-Schwark, N. (2014) Forensic Sci Int. 235:62-7.

PubMed ID: 24447452 **Reactivity:** Human **Applications:** Western Blot

Overexpression of Heat Shock Protein 72 Attenuates NF- κ B Activation Using a Combination of Regulatory Mechanisms in Microglia.

Sheppard, P.W., Sun, X., Khammash, M., Giffard, R.G. (2014) PLoS Comput Biol. 10(2):e1003471.

PubMed ID: 24516376 **Reactivity:** Mouse **Applications:** Western Blot

Effects of corticosteroids in the development of limb muscle weakness in a porcine intensive care unit model.

Aare, S. et al. (2013) Physiol Genomics. 45 (8): 312-320.

PubMed ID: 23429211 **Reactivity:** Pig **Applications:** Western Blot

Iron modulates cell survival in a Ras- and MAPK-dependent manner in ovarian cells.

Bauckman, K.A., Haller, E., Flores. I., and Nanjundan, M. (2013) Cell Death Dis. 4:e592.

PubMed ID: 23598404 **Reactivity:** Human **Applications:** Western Blot

Molecular and Cellular Networks in Critical Illness Associated Muscle Weakness: Skeletal Muscle Proteostasis in the Intensive Care Unit.

Banduseela, V.C. (2012) Uppsala University, Disciplinary Domain of Medicine and Pharmacy, Faculty of Medicine, Department of Neuroscience. PhD Dissertation

PubMed ID: **Reactivity:** Pig **Applications:** Western Blot

Influences of temperature, oxidative stress, and phosphorylation on binding of heat shock proteins in skeletal muscle fibers.

Larkins, N.T., Murphy, R.M., and Lamb, G.D. (2012) Am J Physiol Cell Physiol. 303 (6): C654-C665.

PubMed ID: 22763123 **Reactivity:** Rat **Applications:** Western Blot

DnAJA1 Antagonizes Constitutive Hsp70-Mediated Stabilization of Tau.

Abisambra, J.F., et al. (2012) J.Mol.Biol. 421: 653-661.

PubMed ID: 22343013 **Reactivity:** Human **Applications:** Western Blot

Hsp70 Promotes Epithelial Sodium Channel Functional Expression by Increasing Its Association with Coat Complex II and Its Exit from Endoplasmic Reticulum.

Chanoux, R.A. et al. (2012) J Biol Chem. 287, 19255-19265.

PubMed ID: 22496374 **Reactivity:** Dog **Applications:** Western Blot

Using the Heat-Shock Response To Discover Anticancer Compounds that Target Protein Homeostasis.

Santagata, S. et al. (2012) ACS Chem.Biol. 7 (2): 340-349.

PubMed ID: 22050377 **Reactivity:** Human **Applications:** Western Blot

Absolute amounts and diffusibility of HSP72, HSP25, and β -crystallin in fast- and slow-twitch skeletal muscle fibers of rat.

Larkins, N.T., Murphy, R.M., and Lamb, G.D. (2011) Am J Physiol Cell Physiol. 302 (1): C228-C239.

PubMed ID: 21975426 **Reactivity:** Rat **Applications:** Western Blot

Mechanisms underlying the sparing of masticatory versus limb muscle function in an experimental critical illness model.

Aare, S. et al. (2011) Physiol Genomics. 43 (24): 1334-1350.

PubMed ID: 22010006 **Reactivity:** Pig **Applications:** Western Blot

Heat Shock Protein 70 Prevents both Tau Aggregation and the Inhibitory Effects of Preexisting Tau Aggregates on Fast Axonal Transport.

Patterson, K.R. et al. (2011) Biochem. 50 (47): 10300-10310.

PubMed ID: 22039833 **Reactivity:** Human **Applications:** Western Blot

Withaferin A Analogs and Uses Thereof.

Gunatilaka, L., Lindquist, S.L., Whitesell, L., Wijeratne, E.M.K., and Xu, Y. (2011) United States Patent Application US20110230551 A1.

PubMed ID: **Reactivity:** Mouse **Applications:** Western Blot

Preferential skeletal muscle myosin loss in response to mechanical silencing in a novel rat intensive care unit model: underlying mechanisms.

Ochala, J. et al. (2011) J Physiol. 589 (8): 2007-2026.

PubMed ID: 21320889 **Reactivity:** Rat **Applications:** Western Blot

Co-overexpression of Bag-1 and heat shock protein 70 in human epidermal squamous cell carcinoma: Bag-1-mediated resistance to 5-fluorouracil induced apoptosis.

Wood, J. et al. (2011) Br J Cancer. 104 (9): 1459-1471.

PubMed ID: 21522149 **Reactivity:** Human **Applications:** Western Blot

Effects of HSP70 on the compression force-induced TNF- α and RANKL expression in human periodontal ligament cells.

Mitsuhashi, M., Yamaguchi, M., Kojima, T., Nakajima, R., Kasai, K. (2011) Inflammation Research. 60 (2): 187-194.

PubMed ID: 20924639 **Reactivity:** Human **Applications:** Western Blot

Deciphering Human Heat Shock Transcription Factor 1 Regulation via Post-Translational Modification in Yeast.

Batista-Nascimento, L., Neef, D.W., Liu, P.C.C., Rodrigues-Pousada, C., Thiele, D.J. (2011) PLoS One. 6 (1): e15976.

PubMed ID: 21253609 **Reactivity:** Mouse **Applications:** Western Blot

Deciphering Human Heat Shock Transcription Factor 1 Regulation via Post-Translational Modification in Yeast.

Batista-Nascimento, L., Neef, D.W., Liu, P.C.C., Rodrigues-Pousada, C., Thiele, D.J. (2011) PLoS One. 6 (1): e15976.

PubMed ID: 21253609 **Reactivity:** Human **Applications:** Western Blot

Tamm-Horsfall protein and urinary exosome isolation.

Fernández-Llama, P. et al. (2010) Kidney Int. 77, 736-742.

PubMed ID: 20130532 **Reactivity:** Human **Applications:** Western Blot

Gene expression and muscle fiber function in a porcine ICU model.

Banduseela, V.C. et al. (2009) *Physiol Genomics*. 39 (3): 141-159.

PubMed ID: 19706692 **Reactivity:** Pig **Applications:** Western Blot

2,3-Dihydrowithaferin A-3'-O-sulfate, a new potential prodrug of withaferin A from aeroponically grown *Withania somnifera*.

Xu, Y. et al. (2009) *Bioorg Med Chem*. 17 (6): 2210-2214.

PubMed ID: 19056281 **Reactivity:** Mouse **Applications:** Western Blot

Identification of Phosphorylation-Dependent Binding Partners of Aquaporin-2 Using Protein Mass Spectrometry.

Zwang, N.A. et al. (2009) *J. Proteome Res*. 8 (3): 1540-1554.

PubMed ID: 19209902 **Reactivity:** Rat **Applications:** Western Blot

Immunoprecipitation

Prostaglandin E Synthase Interacts with Inducible Heat Shock Protein 70 After Heat Stress in Bovine Primary Dermal Fibroblast Cells.

Richter, C., Viergutz, T., Schwerin, M. and Weitzel, J.M. (2014) *Cytometry A*. 87(1):61-7.

PubMed ID: 25412999 **Reactivity:** Bovine **Applications:** Immunoprecipitation

Macrophage inflammatory protein derivative ECI301 enhances the alarmin-associated abscopal benefits of tumor radiotherapy.

Kanegasaki, S., Matsushima, K., Shiraishi, K., Nakagawa, K. and Tsuchiya, T. (2014) *Cancer Res*. 74(18):5070-8.

PubMed ID: 25038226 **Reactivity:** Mouse **Applications:** Immunoprecipitation

Immunohistochemistry

Detection of constitutive and inducible HSP70 proteins in formalin fixed human brain tissue.

Preusse-Prange, A., Modrow, J.H., Schwark, T., von Wurmb-Schwark, N. (2014) *Forensic Sci Int*. 235:62-7.

PubMed ID: 24447452 **Reactivity:** Human **Applications:** Immunohistochemistry

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PubMed ID: 21522149 **Reactivity:** Human **Applications:** Immunohistochemistry

Flow Cytometry

Heat Shock Enhances the Expression of the Human T Cell Leukemia Virus Type-I (HTLV-I) Trans-Activator (Tax) Antigen in Human HTLV-I Infected Primary and Cultured T Cells.

Kunihiro, M. et al. (2016) *Viruses*. 8(7).

PubMed ID: 27409630 **Reactivity:** Human **Applications:** Flow Cytometry

Prostaglandin E Synthase Interacts with Inducible Heat Shock Protein 70 After Heat Stress in Bovine Primary Dermal Fibroblast Cells.

Richter, C., Viergutz, T., Schwerin, M. and Weitzel, J.M. (2014) *Cytometry A*. 87(1):61-7.

PubMed ID: 25412999 **Reactivity:** Bovine **Applications:** Flow Cytometry

Immunocytochemistry/Immunofluorescence

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Kato, H. et al. (2014) J Virol. 89(6):3188-99.

PubMed ID: 25552722 **Reactivity:** Human **Applications:** Immunocytochemistry/Immunofluorescence

Other Citations

Fasting Enhances TRAIL-Mediated Liver Natural Killer Cell Activity via HSP70 Upregulation.

Dang, V.T.A. et al. (2014) PLoS One. 9(10): e110748.

PubMed ID: 25356750 **Reactivity:** Mouse **Applications:** Protein Inhibition

Biomarker Analysis with Grating Coupled Surface Plasmon Coupled Fluorescence.

Mendoza, A., Dias, J.A., Zeltner, T. and Lawrence, D.A. (2014) J Adv Bio & Biotech. 1(1): 1-22.

PubMed ID: **Reactivity:** Human **Applications:** Antibody Microarray

Biomarker Analysis with Grating Coupled Surface Plasmon Coupled Fluorescence.

Mendoza, A., Dias, J.A., Zeltner, T. and Lawrence, D.A. (2014) J Adv Bio & Biotech. 1(1): 1-22.

PubMed ID: **Reactivity:** Mouse **Applications:** Antibody Microarray

Heat Shock Protein 70 Prevents both Tau Aggregation and the Inhibitory Effects of Preexisting Tau Aggregates on Fast Axonal Transport.

Patterson, K.R. et al. (2011) Biochem. 50 (47): 10300-10310.

PubMed ID: 22039833 **Reactivity:** Human **Applications:** Electron Microscopy

Associations of HSP90 Client Proteins in Human Breast Cancer.

Shipp, C., Watson, K., and Jones, G.L. (2011) Anticancer Research. 31 (6): 2095-2101.

PubMed ID: 21737627 **Reactivity:** Human **Applications:** Immunoprecipitation

Reviews

Based on validation through cited publications.



StressMarq Biosciences

June 14, 2016: