

HSP70 Monoclonal Antibody (MB-H1)

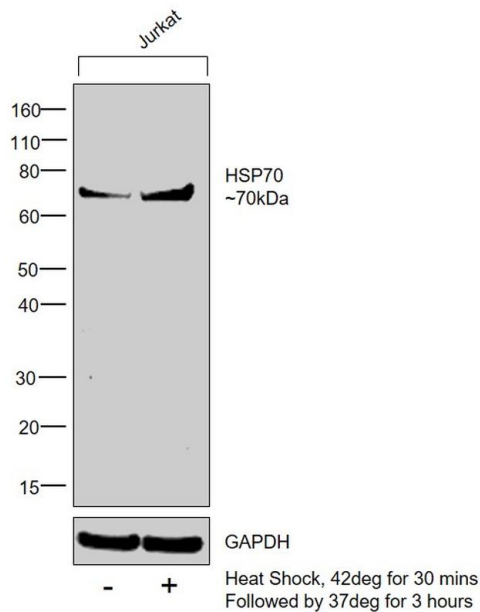
Product Details	
Size	200 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Human, Mouse
Host/Isotype	Mouse / IgM
Class	Monoclonal
Type	Antibody
Clone	MB-H1
Conjugate	Unconjugated
Immunogen	This antibody was prepared against full-length human hsp70 protein.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Size-exclusion chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533116

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	4 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:200	1 Publication
Immunocytochemistry (ICC/IF)	1:100-1:500	-
ELISA (ELISA)	Assay-dependent	-

Product Images For HSP70 Monoclonal Antibody (MB-H1)

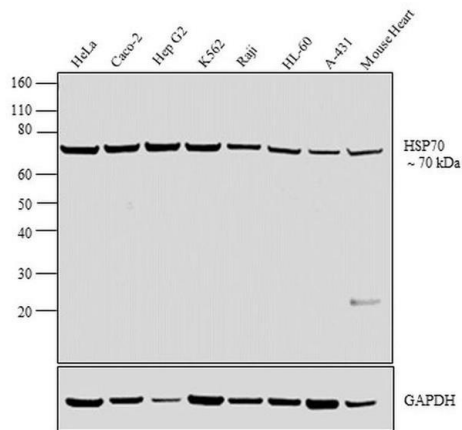
HSP70 Antibody (33-3800)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using HSP70 Monoclonal Antibody (Product # 33-3800), shows increased expression of protein upon treatment with Heat Shock. {TM}



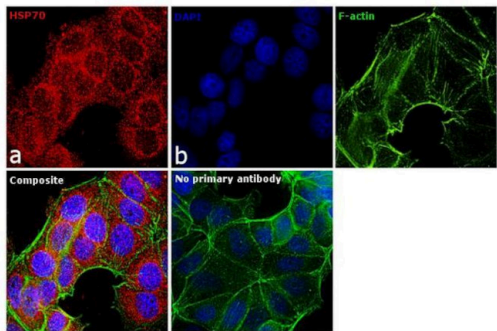
HSP70 Antibody (33-3800) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HeLa (Lane 1), Caco-2 (Lane 2), Hep G2 (Lane 3), K562 (Lane 4), Raji (Lane 5), HL-60 (Lane 6), A-431 (Lane 7) and tissue extract of Mouse Heart (Lane 8). The blot was probed with Anti-HSP70 monoclonal Antibody (Product # 33-3800, 1: 1000 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP (Product # A28177, 0.25 µg/ml, 1: 4000 dilution). A 70 kDa band corresponding to HSP70 was observed across all the cell lines and tissue tested.



HSP70 Antibody (33-3800) in ICC/IF

Immunofluorescence analysis of HSP70 was performed using 70% confluent log phase MCF7 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with HSP70 (MB-H1) Mouse Monoclonal Antibody (Product # 33-3800) at 2 µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Mouse IgM (Heavy chain) Cross-Adsorbed Secondary Antibody, Alexa Fluor 568 (Product # A-21043) at 0.2 microgram/mL for 45 minutes at room temperature (Panel a: red). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: green) was stained with Alexa Fluor® 488 Phalloidin (Product # A12379, 1:300). Panel d represents the merged image showing predominant cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



7 References

Western Blot (4)

<p>Nanomaterials (Basel, Switzerland)</p> <p>Isolation of Exosomes from Human Serum Using Gold-Nanoparticle-Coated Silicon Surface.</p> <p>"33-3800 was used in Western Blotting to report a GNP-based, quick and simple immunoaffinity technique for the isolation of exosomes."</p> <p>Authors: Pammi Guru KT,Praween N,Basu PK</p>	<p>Year</p> <p>2023</p> <p>Species</p> <p>Human</p>
<p>International journal of molecular sciences</p> <p>The Autophagy-Related Organelle Autophagoproteasome Is Suppressed within Ischemic Penumbra.</p> <p>"Published figure using HSP70 monoclonal antibody (Product # 33-3800) in Western Blot"</p> <p>Authors: Biagioni F,Mastroiacovo F,Lenzi P,Puglisi-Allegra S,Busceti CL,Ryskalin L,Ferese R,Bucci D,Frati A,Nicoletti F, Fornai F</p>	<p>Year</p> <p>2021</p>

View more WB references on thermofisher.com

Immunohistochemistry (2)

<p>Molecules (Basel, Switzerland)</p> <p>Within the Ischemic Penumbra, Sub-Cellular Compartmentalization of Heat Shock Protein 70 Overlaps with Autophagy Proteins and Fails to Merge with Lysosomes.</p> <p>"33-3800 was used in Immunohistochemistry to investigate the autophagy-related microtubule-associated protein I/II-Light Chain 3 (LC3)."</p> <p>Authors: Mastroiacovo F,Biagioni F,Lenzi P,Lazzeri G,Ferrucci M,Puglisi-Allegra S,Frati A,Nicoletti F,Fornai F</p>	<p>Year</p> <p>2022</p> <p>Species</p> <p>Mouse</p> <p>Dilution</p> <p>1:100</p>
<p>International journal of molecular sciences</p> <p>The Autophagy-Related Organelle Autophagoproteasome Is Suppressed within Ischemic Penumbra.</p> <p>"Published figure using HSP70 monoclonal antibody (Product # 33-3800) in Western Blot"</p> <p>Authors: Biagioni F,Mastroiacovo F,Lenzi P,Puglisi-Allegra S,Busceti CL,Ryskalin L,Ferese R,Bucci D,Frati A,Nicoletti F, Fornai F</p>	<p>Year</p> <p>2021</p>

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IHC (P) (1)

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