

HSC70 Monoclonal Antibody (1B5)

Product Details

Size	100 µg
Species Reactivity	Dog, Guinea pig, Hamster, Human, Many, Mouse, Sheep, Pig, Rabbit, Rat
Published Species	Mouse
Host/Isotype	Rat / IgG2a
Class	Monoclonal
Type	Antibody
Clone	1B5
Conjugate	Unconjugated
Immunogen	Full length, native Hsc70 protein purified from sodium arsenite treated heat-resistant variants of Chinese hamster cells.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.2, with 0.1mM PMSF, 50% glycerol
Contains	no preservative
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_794523

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5 µg/mL	1 Publication
Immunohistochemistry (IHC)	Assay-dependent	-
Immunocytochemistry (ICC/IF)	1 µg/mL	-
Immunoprecipitation (IP)	5 µg/mL	1 Publication

Product Specific Information

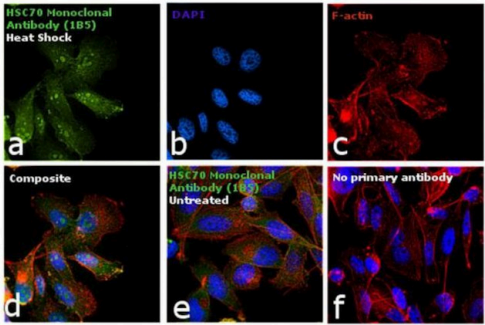
Recommended positive controls: Bovine Hsc70 Protein and HeLa Heat Shocked Cell Lysate.

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For HSC70 Monoclonal Antibody (1B5)

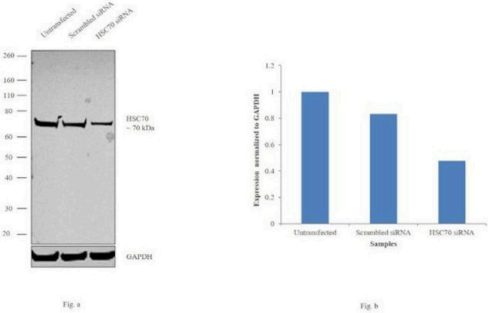
HSC70 Antibody (MA1-26078) in ICC/IF

Immunofluorescence analysis of HSC70 was performed using 70% confluent log phase PC-3 cells treated with Heat Shock (43 degree celsius for 1 hr). 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 HSC70 Monoclonal Antibody (1B5) (Product # MA1-26078) at 1 µg/mL concentration in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Rat IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 488 (Product # A-11006) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing HSC70 in the nucleolus and cytoplasm. Panel e represents the untreated cells showing cytoplasmic and faint nucleus localization. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



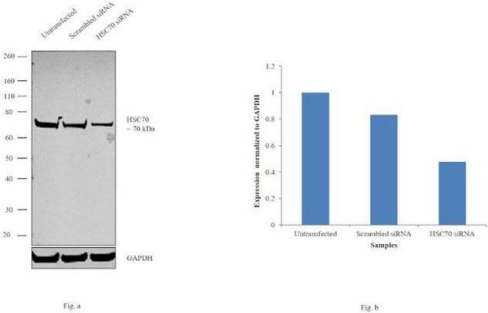
HSC70 Antibody (MA1-26078)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with HSC70 siRNA and reduction of signal was observed in Western Blot using HSC70 Monoclonal Antibody (Product # MA1-26078). {KD}



HSC70 Antibody (MA1-26078) in WB

Knockdown of HSC70 was achieved by transfecting HeLa with HSC70 specific siRNAs (Silencer® select Product # s6987). Western blot analysis (Fig. a) was performed using whole cell extracts from the HSC70 knockdown cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blot was probed with HSC70 Monoclonal Antibody (Product # MA1-26078, 1µg/ml) and F(ab')2- Rabbit anti-Rat IgG (H+L) Secondary Antibody, HRP conjugate (Product # PA1-29927, 0.25µg/ml, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to HSC70.



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Western Blot (1)

Science translational medicine	Year 2012
Proteasome inhibition alleviates SNARE-dependent neurodegeneration.	Species Mouse
"MA1-26078 was used in western blot to study the beneficial effects of proteasome inhibitors on neurodegeneration in a murine model of cysteine string protein-alpha deficiency"	
Authors: Sharma M,Burré J,Südhof TC	

Immunoprecipitation (1)

Nature cell biology	Year 2011
CSP promotes SNARE-complex assembly by chaperoning SNAP-25 during synaptic activity.	Species Mouse
"MA1-26078 was used in immunoprecipitation and western blot to study the role of CSP-alpha in SNARE complex formation during synaptic activity"	
Authors: Sharma M,Burré J,Südhof TC	

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