

HSPA4 Monoclonal Antibody (5A6)

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	5A6
Conjugate	Unconjugated
Immunogen	Purified recombinant fragment of human HSP70 expressed in E. Coli.
Form	Liquid
Concentration	1.0 mg/mL
Purification	purified
Storage buffer	PBS
Contains	0.05% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_10984475

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:2,000	1 Publication
Immunohistochemistry (IHC)	1:200-1:1,000	-
Immunocytochemistry (ICC/IF)	1:200-1:1,000	-
ELISA (ELISA)	1:10,000	-

Product Specific Information

MA5-15578 targets HSP70 in indirect ELISA, IF, IHC, and WB applications and shows reactivity with Human samples.

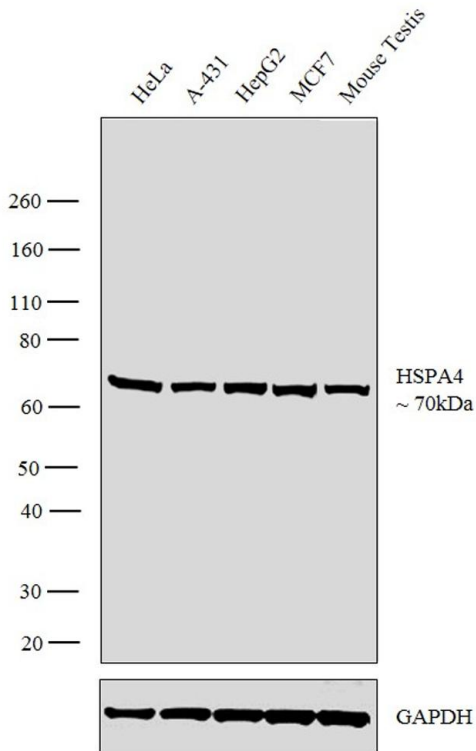
The MA5-15578 immunogen is purified recombinant fragment of human HSP70 expressed in E. Coli.

MA5-15578 detects HSP70 which has a predicted molecular weight of approximately 70kDa.

Product Images For HSPA4 Monoclonal Antibody (5A6)

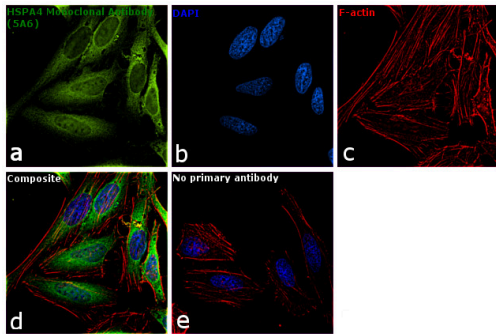
HSPA4 Antibody (MA5-15578) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HeLa (Lane 1), A-431 (Lane 2), HepG2 (Lane 3), MCF7 (Lane 4) and Mouse Testis (Lane 5). The blot was probed with Anti-HSPA4 Monoclonal Antibody (Product # MA5-15578, 1:2000 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 1:4000 dilution). A 70kDa band corresponding to HSPA4 was observed across all cell lines and tissue lysates tested.



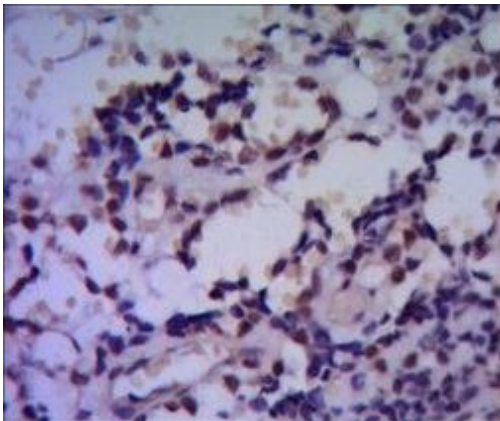
HSPA4 Antibody (MA5-15578) in ICC/IF

Immunofluorescence analysis of HSPA4 was performed using 70% confluent log phase HeLa 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 HSPA4 Monoclonal Antibody (5A6) (Product # MA5-15578) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) 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). Panel d represents the merged image showing nucleus and cytoplasm localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



HSPA4 Antibody (MA5-15578) in IHC (P)

Immunohistochemical analysis of paraffin-embedded human breast cancer using HSPA4/Heat Shock 70 Protein 4 monoclonal antibody (Product # MA5-15578) followed with DAB staining.



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1 Reference

Western Blot (1)

Cell stress & chaperones	Year 2010
Heteromeric complexes of heat shock protein 70 (HSP70) family members, including Hsp70B', in differentiated human neuronal cells.	Species Human
"MA5-15578 was used in western blot to study heteromeric complexes of heat shock protein 70 family members in differentiated human neuronal cells"	
Authors: Chow AM,Mok P,Xiao D,Khalouei S,Brown IR	

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