

Product Name: HSP27 Mouse Monoclonal Antibody
Catalog #: AMM80988



Summary

Production Name	HSP27 Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,FC,ELISA
Reactivity	Human,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Immunogen

Gene Name	HSP27
Alternative Names	CMT2F; HMN2B; HSP27; HSP28; Hsp25; SRP27; HS.76067; DKFZp586P1322; HSPB1
Gene ID	3315.0
SwissProt ID	P04792.Purified recombinant fragment of human HSP27 expressed in E. Coli.

Application

Dilution Ratio	WB:1:500-1:2000,IHC:1:200-1:1000,ICC:1:200-1:1000,FC:1:200-1:400,ELISA:1:10000
Molecular Weight	27kDa

Background

The protein encoded by this gene is induced by environmental stress and developmental changes. The encoded protein is

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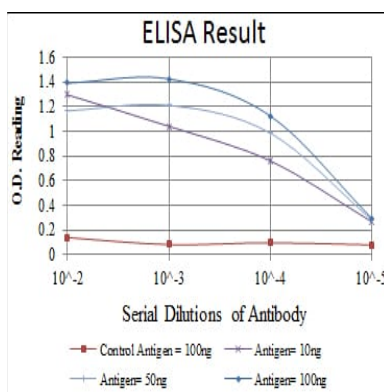


involved in stress resistance and actin organization and translocates from the cytoplasm to the nucleus upon stress induction. Defects in this gene are a cause of Charcot-Marie-Tooth disease type 2F (CMT2F) and distal hereditary motor neuropathy (dHMN). (provided by RefSeq) Tissue specificity: Detected in all tissues tested: skeletal muscle, heart, aorta, large intestine, small intestine, stomach, esophagus, bladder, adrenal gland, thyroid, pancreas, testis, adipose tissue, kidney, liver, spleen, cerebral cortex, blood serum and cerebrospinal fluid. Highest levels are found in the heart and in tissues composed of striated and smooth muscle.

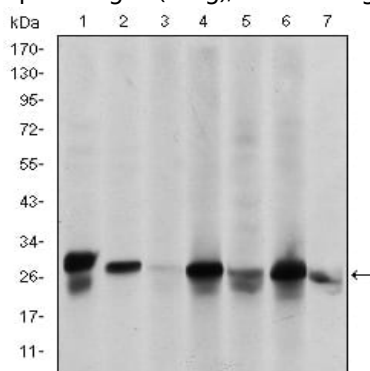
Research Area

MAPK signaling pathway

Image Data

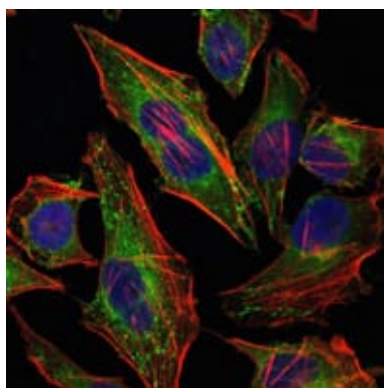


Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);

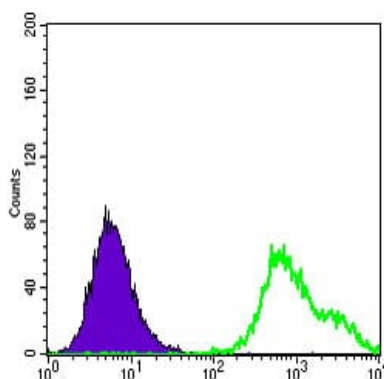


Western blot analysis using HSP27 mouse mAb against Hela (1), A549 (2), Jurkat (3), A431 (4), HEK293(5), HepG2 (6) and PC-12 (7) cell lysate.

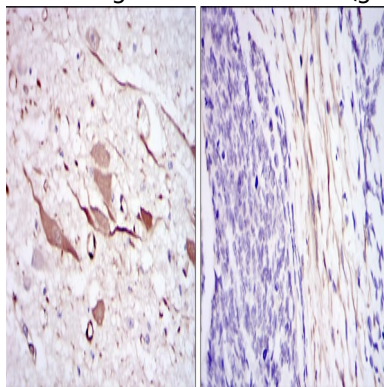
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Immunofluorescence analysis of HeLa cells using HSP27 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

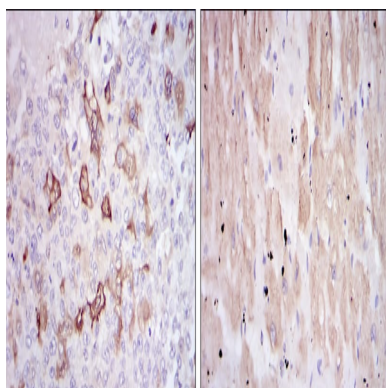


Flow cytometric analysis of HepG2 cells using HSP27 mouse mAb (green) and negative control (purple).



Immunohistochemical analysis of paraffin-embedded human brain tissues (left) and esophageal cancer tissues (right) using HSP27 mouse mAb with DAB staining.

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Immunohistochemical analysis of paraffin-embedded human breast cancer tissues (left) and cardiac muscle tissues (right) using HSP27 mouse mAb with DAB staining.

Note

For research use only.