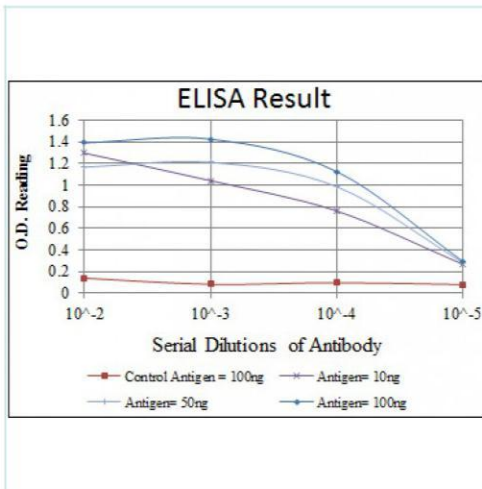
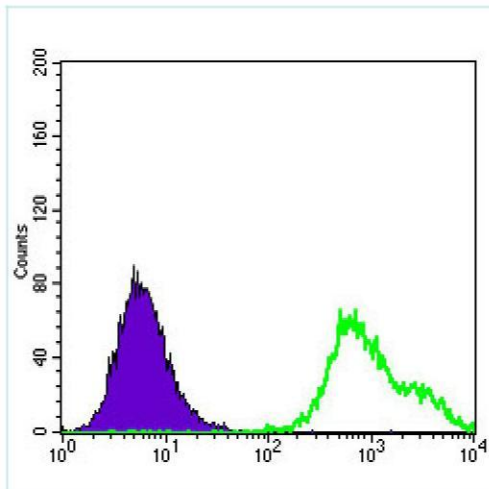
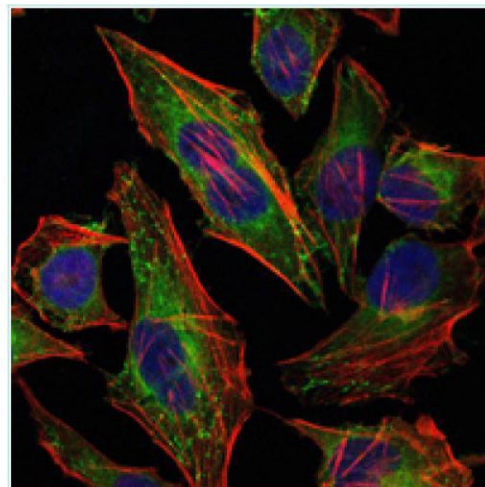
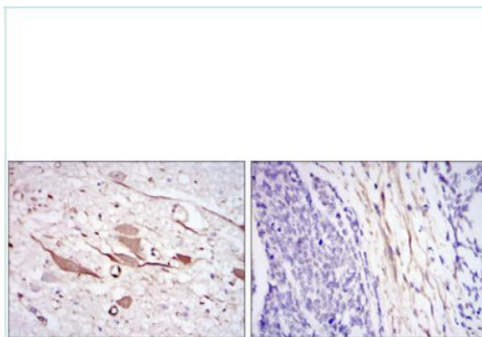
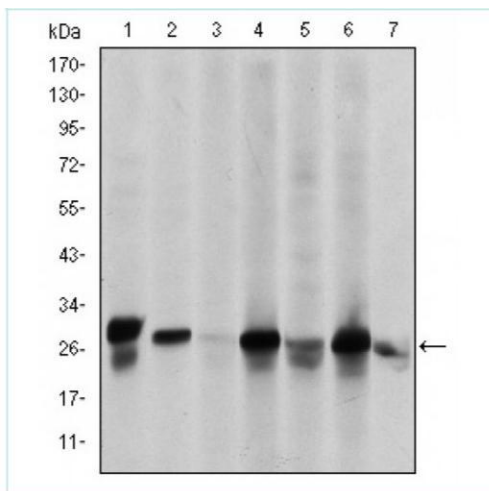


HSP27 antibody

Cat# NB-22-8239



Description

Mouse Monoclonal to HSP27

Product Information

Code	NB-22-8239
Host	Mouse
Reactivity	Human, Rat
Applications	WB, IHC, IF, FC, ELISA
Immunogen	Purified recombinant fragment of human HSP27 expressed in E. Coli.
Gene ID	3315 (Human); 24471 (Rat)

Dilution range	WB 1:500-1:2000; IHC 1:200-1:1000; IF 1:200-1:1000; FC 1:200-1:400; ELISA 1:10000
Specificity	HSP27 Monoclonal Antibody detects endogenous levels of HSP27 protein.
Purification	Affinity purification
Clone ID	5D7
Note	For research use only.
Protein Name	Heat shock protein beta-1
Clonality	Monoclonal
Conjugation	Unconjugated
Formulation	Ascitic fluid containing 0.03% sodium azide.
Concentration	N/A
Storage Instruction	Store at -20°C. Avoid repeated freeze/thaw cycles.

Target

Database Links	Human UniProt/Swiss-Prot: P04792 ; Mouse UniProt/Swiss-Prot: P14602 ; Rat UniProt/Swiss-Port: G3V913 ; Human Entrez Gene: 3315 ;
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Alternative names	HSPB1 / heat shock protein family B (small) member 1 / 25 kDa heat shock protein antibody, 25 kDa IAP antibody, 27kDa antibody, 28 kDa heat shock protein antibody, actin polymerization inhibitor antibody, CB1_000518036 antibody, CMT2F antibody, D623_10015232 antibody, epididymis secretory protein Li 102 antibody, estrogen-regulated 24 kDa protein antibody, growth-related 25 kDa protein antibody, H920_03108 antibody, heat shock 25 kDa protein antibody, heat shock 27 kDa protein antibody, heat shock 27 kDa protein 1 antibody, heat shock 27kDa protein 1 antibody, heat shock 27kD protein 1 antibody, heat shock protein 1 antibody, heat shock protein, 25 kDa antibody, heat shock protein 27 antibody, heat shock protein 27 kDa beta-1 antibody, heat shock protein, alpha-crystallin-related, 1 antibody, heat shock protein B1 antibody, heat shock protein beta-1 antibody, heat shock protein HSP27-like protein antibody, HEL-S-102 antibody, HMN2B antibody, hs.76067 antibody, hsp1 antibody, hsp25 antibody, HSP
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25 antibody, hsp27 antibody, HSP 27 antibody, Hsp27alpha antibody, hsp28 antibody, hypothetical protein antibody, I79_007264 antibody, inhibitor of actin polymerization antibody, low molecular weight heat shock protein 27 antibody, M91_01041 antibody, M959_10961 antibody, N300_03451 antibody, N303_12088 antibody, p25 antibody, PAL_GLEAN10012025 antibody, PANDA_012655 antibody, SRP27 antibody, stress-responsive protein 27 antibody, TREES_T100020790 antibody, truncated hsp25 antibody, UY3_14010 antibody, Y1Q_013734 antibody, Z169_00588 antibody

Function

Involved in stress resistance and actin organization.

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.

Sequence and Domain Family

Belongs to the small heat shock protein (HSP20) family.

Post-translational Modifications

Phosphorylated in MCF-7 cells on exposure to protein kinase C activators and heat shock. / Phosphorylation by MAPKAPK2 and MAPKAPK3 in response to stress leads to dissociate HSP27/HSPB1 from large small heat-shock protein (sHsps) oligomers and impair its chaperone activity and ability to protect against oxidative stress effectively. Phosphorylation by MAPKAPK5 in response to PKA stimulation induces F-actin rearrangement.

Cellular Localization

Cytoplasm / Nucleus / Cytoplasm > cytoskeleton > spindle

For reference only

For Research Use Only. Not for Diagnostic or Therapeutic Use.