Anti-Phospho-Hsp27 (Ser82) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014629

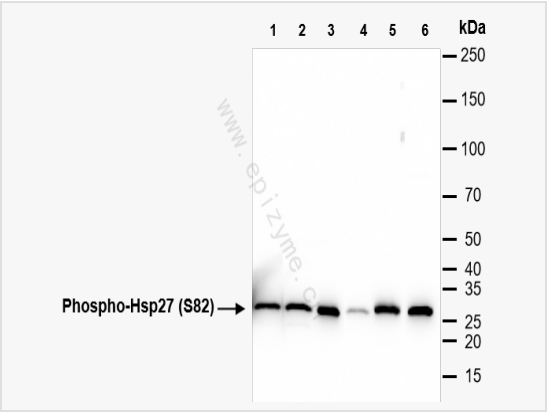
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Rat, Human, Mouse
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	98G07M53
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-Hsp27 (S82)
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-Hsp27 (Ser82) Rabbit mAb [98G07M53] is for research use only and not for use in diagnostic or therapeutic procedures.

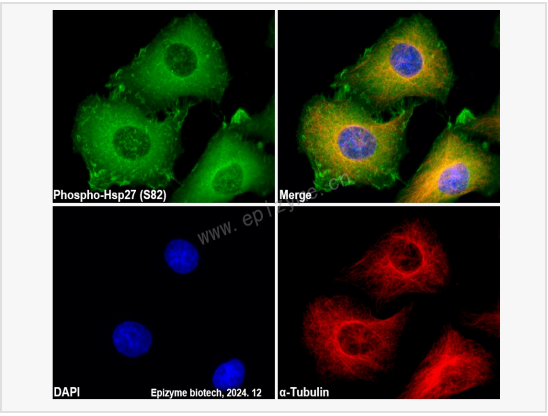
Protein Information

Synonyms	Heat shock 27kDa protein, 28 kDa heat shock protein, CMT2F, DKFZp586P1322, epididymis secretory protein Li 102, Estrogen regulated 24 kDa protein, Estrogen-regulated 24 kDa protein, Heat shock 25kDa protein 1, Heat shock 27 kDa protein, Heat shock 27kD protein 1, Heat shock 27kDa protein 1, Heat shock 28kDa protein 1, Heat Shock Protein 27, Heat shock protein beta 1, Heat shock protein beta-1, heat shock protein family B (small) member 1, HEL-S-102, HMN2B, HS.76067, Hsp 25, HSP 27, Hsp 28, Hsp B1, Hsp25, HSP27, Hsp28, HspB1, HSPB1_HUMAN, SRP27, Stress responsive protein 27, Stress-responsive protein 27.
Calculated MW	Calculated MW: 23 kDa; Observed MW: 27 kDa
Uniprot ID	P04792
Gene ID	3315
Background	Heat shock protein (HSP) 27 is one of the small HSPs that are constitutively expressed at different levels in various cell types and tissues. Like other small HSPs, HSP27 is regulated at both the transcriptional and posttranslational levels. In response to stress, the HSP27 expression increases several-fold to confer cellular resistance to the adverse environmental change. HSP27 is phosphorylated at Ser15, Ser78, and Ser82 by MAPKAPK-2 as a result of the activation of the p38 MAP kinase pathway.
Cellular Location	Cytoplasm. Nucleus. Cytoplasm > cytoskeleton > spindle. Cytoplasmic in interphase cells. Colocalizes with mitotic spindles in mitotic cells. Translocates to the nucleus during heat shock and resides in sub-nuclear structures known as SC35 speckles or nuclear splicing speckles.

Validation Images



Western Blot - Anti-Phospho-Hsp27 (Ser82) Rabbit mAb [98G07M53]
All lanes: R014629 at 1:1,000 dilution
Lane 1: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 2: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 3: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 4: Rat spleen whole tissue lysates
Lane 5: Mouse heart whole tissue lysates
Lane 6: Mouse muscle whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 23 kDa
Observed band size: 27 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Phospho-Hsp27 (Ser82) Rabbit mAb [98G07M53]
Sample: Hela cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R014629 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (CY3) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).