

Anti-Phospho-Hsp27 (Ser78) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

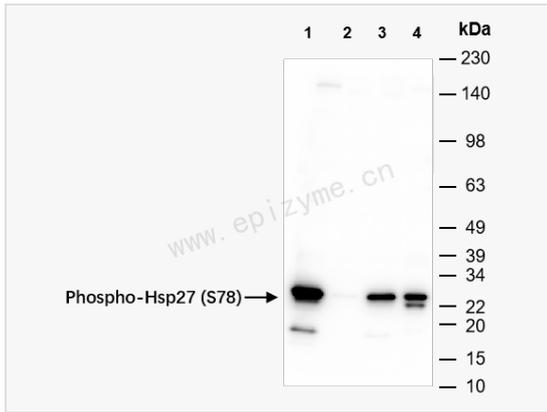
Catalog # R015026

Product Information

| | |
|-------------|--|
| Application | WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA |
| Reactivity | Human |
| Dilution | WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200 |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone No. | 22I81N46 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | A synthesized peptide derived from human Phospho-Hsp27 (S78) |
| 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 (Ser78) Rabbit mAb [22I81N46] 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: 23 kDa |
| Uniprot ID | P04792 |
| Gene ID | 3315 |
| Background | This gene encodes a member of the small heat shock protein (HSP20) family of proteins. In response to environmental stress, the encoded protein translocates from the cytoplasm to the nucleus and functions as a molecular chaperone that promotes the correct folding of other proteins. This protein plays an important role in the differentiation of a wide variety of cell types. Expression of this gene is correlated with poor clinical outcome in multiple human cancers, and the encoded protein may promote cancer cell proliferation and metastasis, while protecting cancer cells from apoptosis. Mutations in this gene have been identified in human patients with Charcot-Marie-Tooth disease and distal hereditary motor neuropathy. [provided by RefSeq, Aug 2017]. |
| Cellular Location | Cytoplasm. Nucleus. Cytoplasm > cytoskeleton > spindle. Cytoplasmic in interphase cells. Colocalizes with mitotic spindles in |



Western Blot - Anti-Phospho-Hsp27 (Ser78) Rabbit mAb [22I81N46]

All lanes: R015026 at 1:1,000 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2 : HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3 : HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4 : SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates

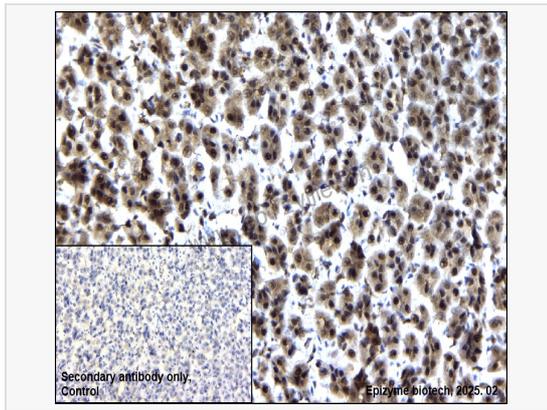
Lysates/proteins at 10 µg per lane.

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: 23 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Phospho-Hsp27 (Ser78) Rabbit mAb [22I81N46]

Sample: Paraformaldehyde-fixed, paraffin embedded rat stomach tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R015026 at 1:200 dilution

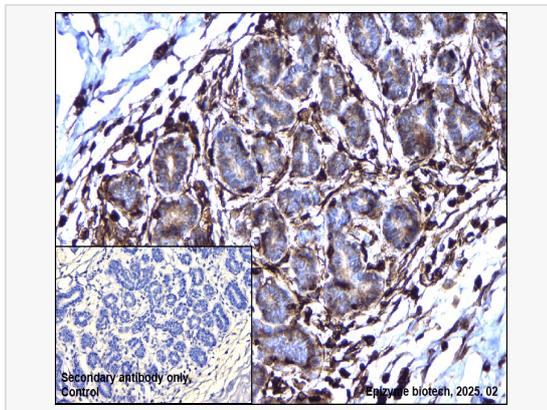
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-Hsp27 (Ser78) Rabbit mAb [22I81N46]

Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R015026 at 1:200 dilution

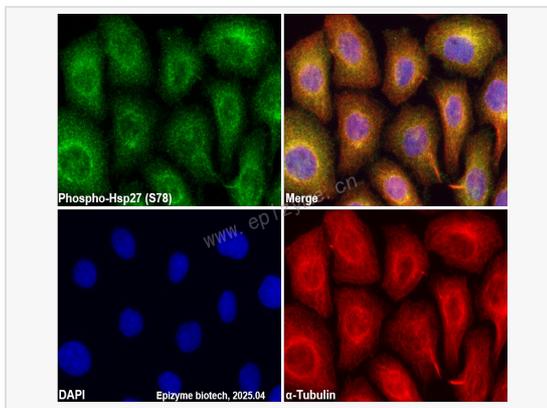
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-Phospho-Hsp27 (Ser78) Rabbit mAb [22I81N46]

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: R015026 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 (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).