

## Anti-Phospho-Hsp27/HSPB (Ser78) Antibody (3C571)

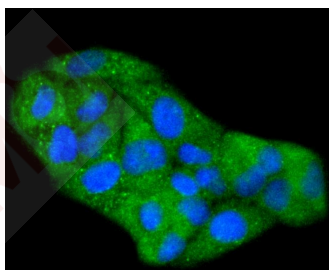
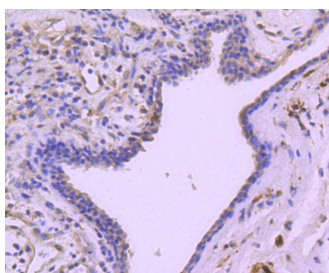
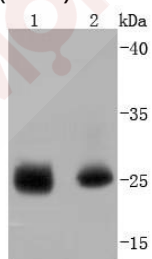
### Product Details

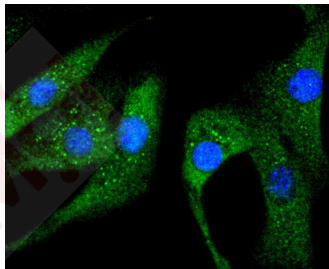
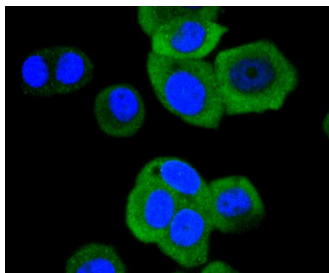
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 27 kDa.
Clone:	3C571
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of Phospho-Hsp27 (S78) on different lysates using anti-Phospho-Hsp27 (S78) antibody at 1/1,000 dilution. Positive control: Lane 1: Human heart, Lane 2: Human skeletal muscle.
2. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Phospho-Hsp27 (S78) antibody. Counter stained with hematoxylin.
3. ICC staining Phospho-Hsp27 (S78) in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
4. ICC staining Phospho-Hsp27 (S78) in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining Phospho-Hsp27 (S78) in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC/IF,IHC,IP,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: A synthesized phosphopeptide: human Hsp27 around the phosphorylation site of Ser78

Antigen Species: Human

Uniprot ID: P04792

Synonyms: p-Hsp27/HSPB (Ser78);Hsp27/HSPB (p-S78);p-Hsp27/HSPB (S78);Hsp27/HSPB (p-Ser78)

### Research Background

HSP 27 is a constitutively expressed cytoplasmic protein that co-localizes to the nucleus upon stress-induced insult. Heat shock, cytokines and hormones are among the factors that stimulate the synthesis of HSP 27. The intracellular concentration of the mammalian heat shock protein, HSP 27, increases several-fold after heat shock and other metabolic stresses, and is closely associated with the acquisition of thermotolerance. MAP kinase-activated protein kinase-2 phosphorylates HSP 27 on Serine residues Ser 15, Ser 78 and Ser 82, which are phosphorylated in vivo in response to growth factors and heat shock. Ser 15, Ser 78 and Ser 82 occur in the sequence motif RXXS, which is recognized by ribosomal protein S6 kinase II.

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