

## Anti-HSP27/HSPB1 Antibody (7C626)

### Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	7C626
Purification:	Affinity-chromatography

### Applications

Verified Activity:	<p>1. IHC image of TMAH-00581 diluted at 1:100 and staining in paraffin-embedded human cervical cancer performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-Mouse IgG labeled by HRP and visualized using 0.05% DAB.</p> <p>2. IHC image of TMAH-00581 diluted at 1:100 and staining in paraffin-embedded human pancreatic tissue performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-Mouse IgG labeled by HRP and visualized using 0.05% DAB.</p> <p>3. Overlay Peak curve showing Hela cells stained with TMAH-00581 (red line) at 1:100. The cells were fixed in 4% formaldehyde (15min) and permeated by 0.2% TritonX-100 for 10min. Then 10% normal goat serum was incubated to block non-specific protein-protein interactions followed by the antibody (1µg/1*10<sup>6</sup> cells) for 45 min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4°C. Isotype control antibody (green line) was mouse IgG1 (1µg/1*10<sup>6</sup> cells) used under the same conditions. Acquisition of &gt;10,004 events was performed.</p>
Application:	ELISA,FCM,IHC
Recommended	IHC:1:20-1:200; FCM:1:20-1:200.

### 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: Recombinant Protein: Human HSPB1 Protein  
Antigen Species: Human  
Gene ID: 3315  
Uniprot ID: P04792  
Synonyms: SRP27;Hsp27;HSP 27;HSPB1;HSP28;CMT2F;HMN2B  
Biology Area: Cancer, Cardiovascular, Signal transduction

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### Research Background

Small heat shock protein which functions as a molecular chaperone probably maintaining denatured proteins in a folding-competent state. Plays a role in stress resistance and actin organization. Through its molecular chaperone activity may regulate numerous biological processes including the phosphorylation and the axonal transport of neurofilament proteins.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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