

Basic Information

Product Name	Anti-HSP27/HSPB1 (Phospho-S82) Antibody (Clone#FGD-8)
Gene Name	HSPB1
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IP
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human Phospho-Hsp27 (S82)
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	27 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 ImmunoPrecipitation (IP):1:50

Storage

12 months from date of receipt, -20°C as supplied.

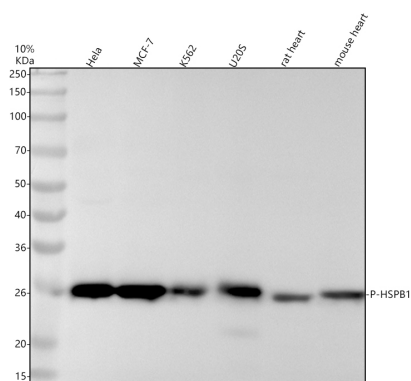
Background Information

The heat-shock proteins(HSPs) belong to a larger group of polypeptides, the stress proteins, that are induced in various combinations in response to environmental challenges and developmental transitions. Heat-shock 27-kD protein also known as HSPB. Synthesis of the small(27-kD) HSP has been shown to be correlated with the acquisition of thermotolerance. HSP27 gene is mapped to 7q11.23. Mutant small heat-shock protein 27 causes axonal Charcot-Marie-Tooth disease and distal hereditary motor neuropathy. Heat shock protein 27 prevents cellular polyglutamine toxicity and suppresses the increase of reactive oxygen species caused by huntingtin.

Reference

Anti-HSP27/HSPB1 (Phospho-S82) Antibody (Clone#FGD-8)被引用在1文献中。

Selected Validation Data



Western blot analysis of anti-P-HSP27 antibody (BM4540). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human MCF-7 whole cell lysates,

Lane 2: human HeLa whole cell lysates,

Lane 3: rat PC-12 whole cell lysates,

Lane 4: rat C6 whole cell lysates,

Lane 5: mouse HEPA1-6 whole cell lysates,

Lane 6: mouse RAW264.7 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-P-HSP27 antigen affinity purified monoclonal antibody (BM4540) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for P-HSP27 at approximately 27 kDa. The expected band size for P-HSP27 is at 23 kDa.