

Basic Information

Product Name	Anti-HSP27/HSPB1 Antibody (Clone#HII-8)	
Gene Name	HSPB1	
Source	Rabbit	
Clonality	Monoclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, IP, FCM	
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 Hsp27	
Concentration	500 ug/ml	
Purification	Affinity-chromatography	
Observed MW	27 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200
	ImmunoPrecipitation (IP):	1:20
	Flow Cytometry (FCM):	1:20

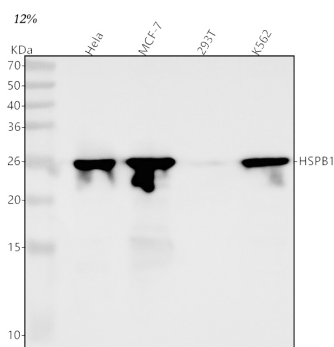
Storage

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.

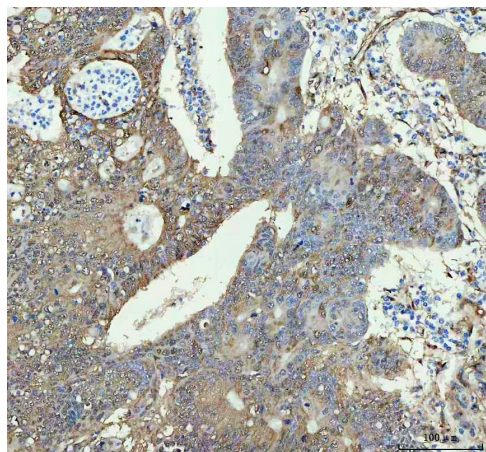
Selected Validation Data



Western blot analysis of anti-PRNP antibody (BM4454). The sample well of each lane was loaded with 30 µg of sample under reducing conditions.

Lane 1: human HeLa whole cell lysates,
Lane 2: human MCF-7 whole cell lysates,
Lane 3: human 293T whole cell lysates,
Lane 4: human K562 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PRNP antigen affinity purified monoclonal antibody (BM4454) 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 PRNP at approximately 27 kDa. The expected band size for PRNP is at 23 kDa.



IHC analysis of PRNP using anti-PRNP antibody (BM4454).

PRNP was detected in a paraffin-embedded section of human colon cancer tissue. The tissue section was incubated with rabbit anti-PRNP Antibody (BM4454) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

Product datasheet

Anti-HSP27/HSPB1 Antibody (Clone#HII-8)

Catalog Number: **BM4770**

BOSTER[®]

antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY

Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

Hela

Immunofluorescent analysis using the Antibody.

