Product datasheet

Anti-HSP27/HSPB1 Antibody

Catalog Number: *PB9237*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-HSP27/HSPB1 Antibody
Gene Name	HSPB1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC, ICC/IF, IP, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Hsp27 recombinant protein (Position: M1-K205). Human Hsp27 shares 83% amino acid (aa) sequence identity with mouse Hsp27.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	27 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 ImmunoPrecipitation (IP): 1:200-300 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

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

Background Information

HSPB1(Heat shock 27kDa protein 1), also known as HSP27, is a protein that in humans is encoded by the HSPB1 gene. HSP27 gene is mapped to 7q11.23. The protein encoded by this gene is induced by environmental stress and developmental changes. The encoded protein is involved in stress resistance and actin organization and translocates from the cytoplasm to the nucleus upon stress induction. Defects in this gene are a cause of Charcot-Marie-Tooth disease type 2F (CMT2F) and distal hereditary motor neuropathy (dHMN).

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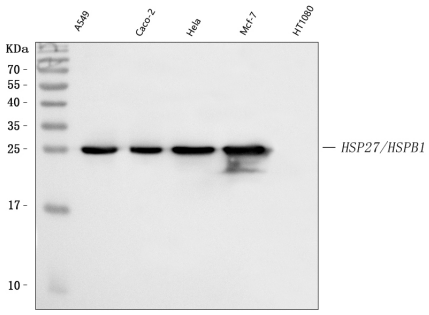
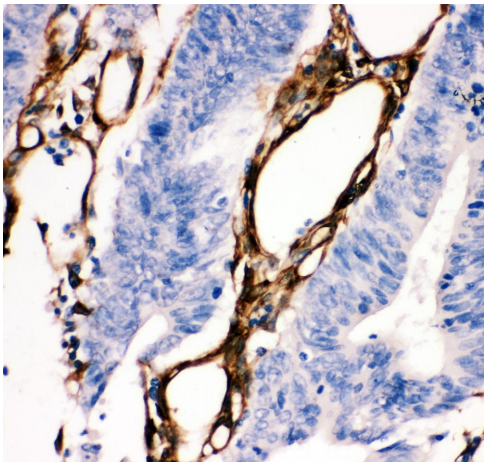
Reference

Anti-HSP27/HSPB1 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of HSP27/HSPB1 using anti-HSP27/HSPB1 antibody (PB9237). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: A549 whole cell lysates,
Lane 2: Caco-2 whole cell lysates,
Lane 3: Hela whole cell lysates,
Lane 4: MCF-7 whole cell lysates,
Lane 5: HT1080 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-HSP27/HSPB1 antigen affinity purified polyclonal antibody (PB9237) 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 HSP27/HSPB1 at approximately 27 kDa. The expected band size for HSP27/HSPB1 is at 23 kDa.



IHC analysis of HSP27/HSPB1 using anti-HSP27/HSPB1 antibody (PB9237).
HSP27/HSPB1 was detected in a paraffin-embedded section of human intestinal cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-HSP27/HSPB1 Antibody (PB9237) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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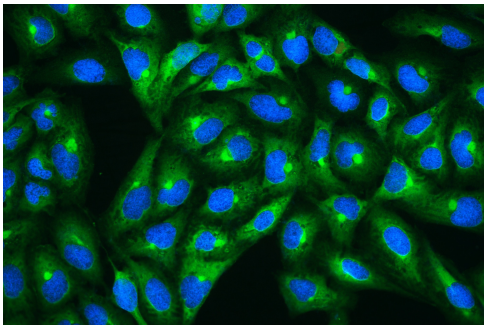
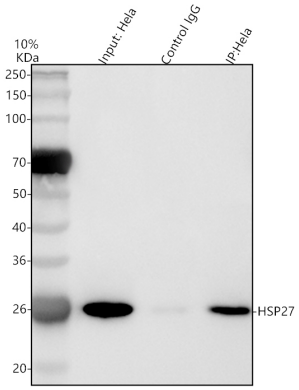


ICC/IF analysis of HSP27 using anti-HSP27 antibody (PB9237).
HSP27 was detected in immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2µg/mL rabbit anti-HSP27 Antibody (PB9237) overnight at 4°C. Fluoro488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IP analysis of HSP27/HSPB1 using anti-HSP27/HSPB1 antibody (PB9237) in Hela whole cell lysate.
Western blot analysis of HSP27/HSPB1 using anti- HSP27/HSPB1 antibody (PB9237).
Lane 1: Hela whole cell lysates(30ug),
Lane 2: Rabbit control IgG instead of anti- HSP27/HSPB1 antibody in Hela whole cell lysate,
Lane 3: anti- HSP27/HSPB1 antibody (2µg) + Hela whole cell lysate (500µg).
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti- HSP27/HSPB1 antigen affinity purified polyclonal antibody (PB9237) at a dilution of 1:1000 and probed with a mouse anti-rabbit IgG-HRP secondary antibody (Light chain). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for HSP27/HSPB1 at approximately 27 kDa. The expected band size for HSP27/HSPB1 is at 23 kDa.

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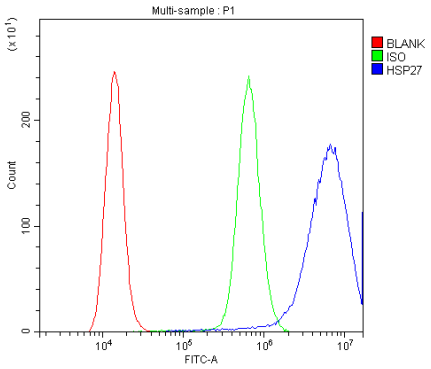

Flow Cytometry analysis of A431 cells using anti-HSP27/HSPB1 antibody (PB9237).
Overlay histogram showing A431 cells stained with PB9237 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HSP27/HSPB1 Antibody (PB9237) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.