Product datasheet

Anti-GRP94/HSP90B1 Antibody

Catalog Number: *PB0670*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-GRP94/HSP90B1 Antibody
Gene Name	HSP90B1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human GRP94 recombinant protein (Position: R43-H221). Human GRP94 shares 99.4% and 98.9% amino acid (aa) sequence identity with mouse and rat GRP94, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	100 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 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. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

Heat shock protein 90kDa beta member 1 (HSP90B1), known as endoplasmin, or GRP94, is a chaperone protein that in humans is encoded by the HSP90B1 gene. It is mapped to chromosome 12q23.3. This gene encodes a member of a family of adenosine triphosphate (ATP)-metabolizing molecular chaperones with roles in stabilizing and folding other proteins. The encoded protein is localized to melanosomes and the endoplasmic reticulum. Expression of this protein is associated with a variety of pathogenic states, including tumor formation.

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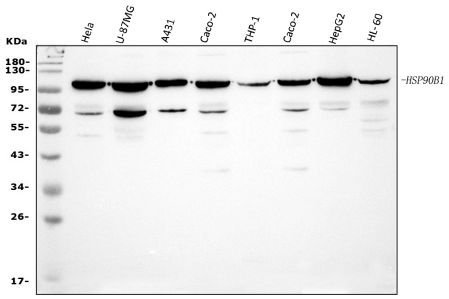
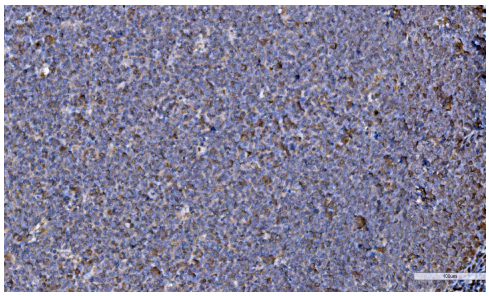
Reference

Anti-GRP94/HSP90B1 Antibody被引用在5文献中。

Selected Validation Data



Western blot analysis of GRP94/HSP90B1 using anti-GRP94/HSP90B1 antibody (PB0670). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: HELA whole cell lysates,
Lane 2: U-87MG whole cell lysates,
Lane 3: A431 whole cell lysates,
Lane 4: Caco-2 whole cell lysates,
Lane 5: THP-1 whole cell lysates,
Lane 6: Caco-2 whole cell lysates,
Lane 7: HEPG2 whole cell lysates,
Lane 8: HL-60 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-GRP94/HSP90B1 antigen affinity purified polyclonal antibody (PB0670) 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 GRP94/HSP90B1 at approximately 100 kDa. The expected band size for GRP94/HSP90B1 is at 92 kDa.



IHC analysis of GRP94/HSP90B1 using anti-GRP94/HSP90B1 antibody (PB0670).
GRP94/HSP90B1 was detected in a paraffin-embedded section of human tonsil tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-GRP94/HSP90B1 Antibody (PB0670) 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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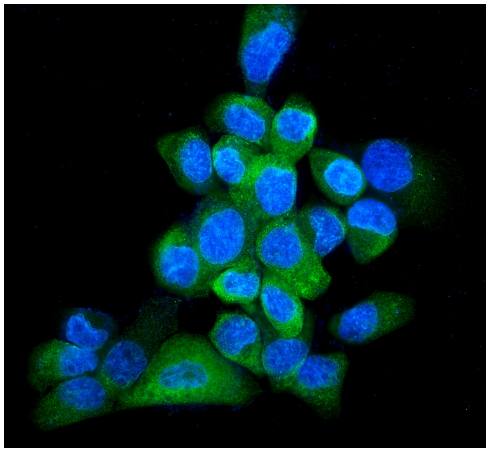
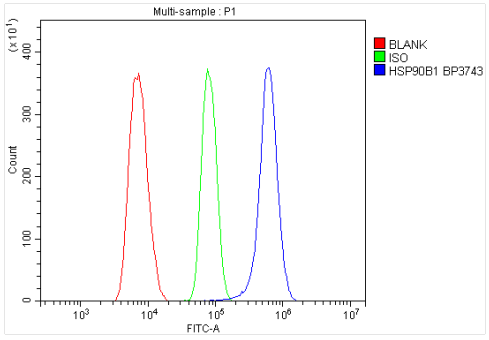


IF analysis of GRP94/HSP90B1 using anti-GRP94/HSP90B1 antibody (PB0670).
GRP94/HSP90B1 was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-GRP94/HSP90B1 Antibody (PB0670) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of THP-1 cells using anti-GRP94/HSP90B1 antibody (PB0670).
Overlay histogram showing THP-1 cells stained with PB0670 (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-GRP94/HSP90B1 Antibody (PB0670) at 1:100 dilution for 30 min at 20°C. DyLight®488 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.