Product datasheet

Anti-HSC70/HSPA8 Antibody (Clone#3B6)

Catalog Number: *M01024-1*

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.
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Basic Information

Product Name	Anti-HSC70/HSPA8 Antibody (Clone#3B6)
Gene Name	HSPA8
Source	Mouse
Clonality	Monoclonal
Isotype	IgG2b
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 Hsc70 recombinant protein (Position: Q520-A614). Human Hsc70 shares 98.9% amino acid (aa) sequence identity with both mouse and rat Hsc70.
Concentration	500 ug/ml
Purification	protein G purified.
Observed MW	71 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.

Background Information

HSPA8 (heat shock 70kDa protein 8) also known as HSC70,HSC71,HSP73,HSPA10,FORMERLY,LAP1 or LPS-ASSOCIATED PROTEIN 1,is a heat shock protein that in humans is encoded by the HSPA8 gene. The HSPA8 gene contains 9 exons and spans 5 kb. The deduced HSPA8 protein has 646 amino acids and a predicted molecular mass of 70,899 Da. And the HSPA8 gene is mapped on 11q24.1. HSPA8 plays an important role in cells by transiently associating with nascent polypeptides to facilitate correct folding. HSP73 also functions as an ATPase in the disassembly of clathrin-coated vesicles during transport of membrane components through the cell. Rapid decay involves AU-rich binding protein AUF1,which complexes with heat-shock proteins HSC70 and HSP70,translation initiation factor EIF4G,and poly (A)-binding protein. In the absence of Il3,Hsc70 formed a complex with Hsp40 and Hip,and this complex,in association with Eif4g and Pabp,formed a high-stability complex with Bim mRNA that protected it

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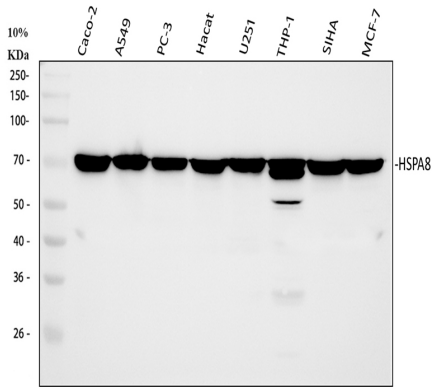
from ribonucleases.

Reference

Anti-HSC70/HSPA8 Antibody (Clone#3B6)被引用在1文献中。

Selected Validation Data



Western blot analysis of anti-HSC70/HSPA8 antibody (M01024-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Caco-2 whole cell lysates,
Lane 2: human A549 whole cell lysates,
Lane 3: human PC-3 whole cell lysates,
Lane 4: human Hacat whole cell lysates,
Lane 5: human U251 whole cell lysates,
Lane 6: human THP-1 whole cell lysates,
Lane 7: human SiHa whole cell lysates,
Lane 8: human MCF-7 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-HSC70/HSPA8 antigen affinity purified monoclonal antibody (M01024-1) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for HSC70/HSPA8 at approximately 71 kDa. The expected band size for HSC70/HSPA8 is at 71 kDa.

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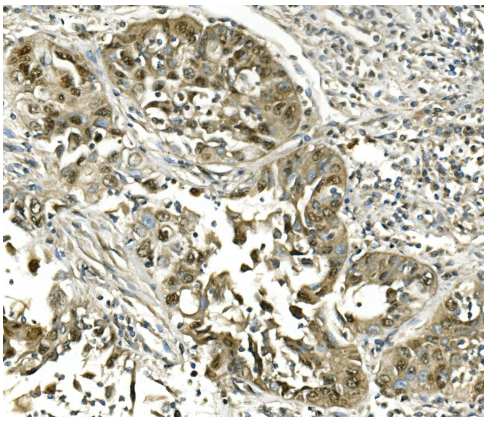
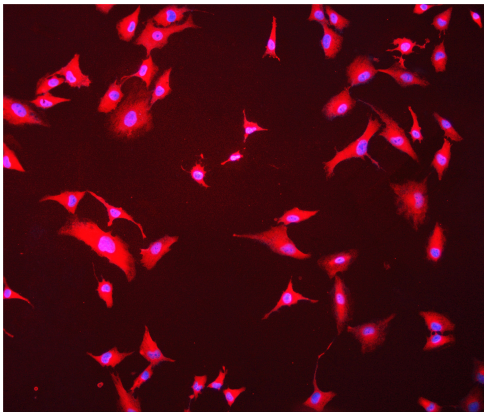
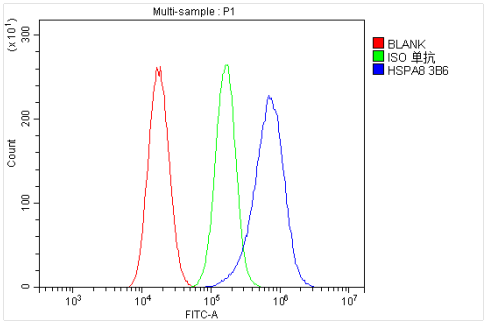


IHC analysis of HSC70/HSPA8 using anti-HSC70/HSPA8 antibody (M01024-1).
HSC70/HSPA8 was detected in a paraffin-embedded section of human lung cancer tissue. The tissue section was incubated with mouse anti-HSC70/HSPA8 Antibody (M01024-1) at a dilution of 1:200 and developed using HRP Conjugated mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of HSC70/HSPA8 using anti-HSC70/HSPA8 antibody (M01024-1).
HSC70/HSPA8 was detected in an immunocytochemical section of A549 cells. The section was incubated with mouse anti-HSC70/HSPA8 Antibody (M01024-1) at a dilution of 1:100. Dylight594-conjugated Anti-mouse IgG Secondary Antibody (red)(Catalog#BA1142) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of A549 cells using anti-HSC70/HSPA8 antibody (M01024-1).
Overlay histogram showing A549 cells stained with M01024-1 (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 mouse anti-HSC70/HSPA8 Antibody (M01024-1) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse 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.