Product datasheet

Anti-HSC70/HSPA8 Antibody (Clone#DBB-8)

Catalog Number: *BM4280*

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

Basic Information

Product Name	Anti-HSC70/HSPA8 Antibody (Clone#DBB-8)
Gene Name	HSPA8
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 Hsc70
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	71 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): 1:30

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 from ribonucleases.

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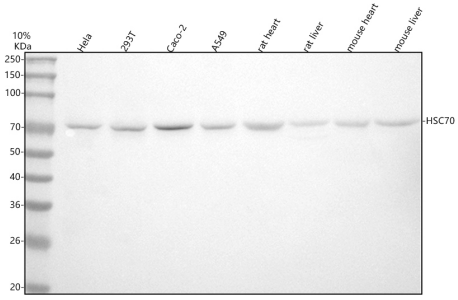
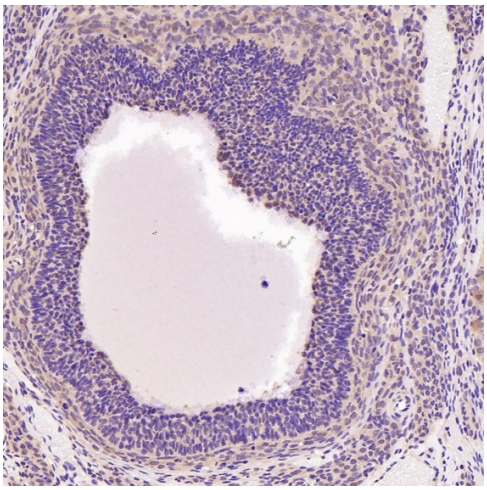
Selected Validation Data



Western blot analysis of anti-HSC70/HSPA8 antibody (BM4280). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human 293T whole cell lysates,
Lane 3: human Caco-2 whole cell lysates,
Lane 4: human A549 whole cell lysates,
Lane 5: rat heart tissue lysates,
Lane 6: rat liver tissue lysates,
Lane 7: mouse heart tissue lysates,
Lane 8: mouse liver tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-HSC70/HSPA8 antigen affinity purified monoclonal antibody (BM4280) 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 HSC70/HSPA8 at approximately 71 kDa. The expected band size for HSC70/HSPA8 is at 71 kDa.



Immunohistochemical analysis of paraffin-embedded Rat ovary, using the Antibody.

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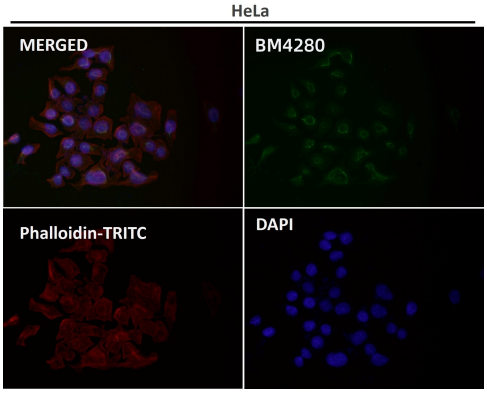

Immunofluorescent analysis using the Antibody.