

Anti-Hsc70 Antibody

Catalog # ABO10595

Specification

Anti-Hsc70 Antibody - Product Information

Application WB, IHC, ICC

Primary Accession
Host
Rabbit

Reactivity Human, Mouse, Rat

Clonality Polyclonal Format Lyophilized

Description

Rabbit IgG polyclonal antibody for Heat shock cognate 71 kDa protein(HSPA8) detection. Tested with WB, IHC-P, IHC-F, ICC in Human; Mouse; Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Hsc70 Antibody - Additional Information

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat
br> Immunocytochemistry , 0.5-1 μ g/ml, Human, Mouse, Rat
br>Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml, Mouse, Rat, Human
br> Western blot, 0.1-0.5 μ g/ml, Human, Mouse, Rat
br>

Protein Name

Heat shock cognate 71 kDa protein

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunoaen

A synthetic peptide corresponding to a sequence at the N-terminus of human Hsc70(13-31aa TTYSCVGVFQHGKVEIIAN), identical to the related rat and mouse sequence.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be

aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and

thawing.

Anti-Hsc70 Antibody - Protein Information

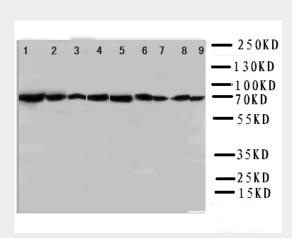


Anti-Hsc70 Antibody - Protocols

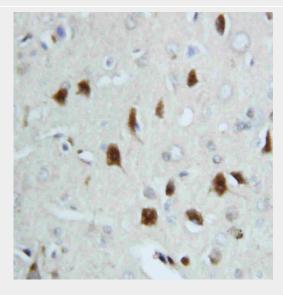
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Anti-Hsc70 Antibody - Images

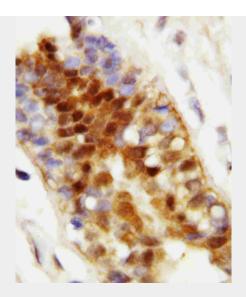


Anti-Hsc70 antibody, ABO10595, Western blottingLane 1: Rat Testis Tissue LysateLane 2: Rat Brain Tissue LysateLane 3: Rat Liver Tissue LysateLane 4: Rat Lung Tissue LysateLane 5: CEM Cell LysateLane 6: HELA Cell LysateLane 7: SMMC Cell LysateLane 8: HT1080 Cell LysateLane 9: COLO320 Cell Lysate

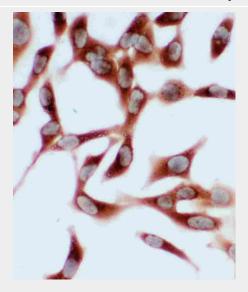


Anti-Hsc70 antibody, ABO10595, IHC(P)IHC(P): Rat Brain Tissue

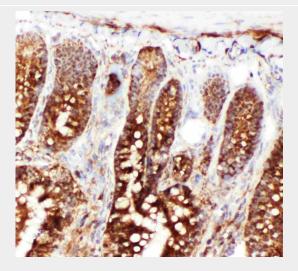




Anti-Hsc70 antibody, ABO10595, IHC(P)IHC(P): Human Mammary Cancer Tissue



Anti-Hsc70 antibody, ABO10595, ICCICC: HELA Cell



Anti-Hsc70 antibody, ABO10595, IHC(F)IHC(F): Rat Intestine Tissue

Anti-Hsc70 Antibody - Background





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The 70 kilodalton heat shock proteins(Hsp70s) are a family of ubiquitously expressed heat shock proteins. The Hsp70s are an important part of the cell's machinery for protein folding, and help to protect cells from stress. All of the Hsp70 proteins have three major functional domains: An N-terminal ATPase domain binds ATP(Adenosine triphosphate) and hydrolyzes it to ADP(Adenosine diphosphate); A substrate binding domain contains a groove with an affinity for neutral, hydrophobic amino acid residues; A C-terminal domain rich in alpha helical structure acts as a 'lid' for the substrate binding domain. By binding tightly to partially-synthesized peptide sequences(incomplete proteins), Hsp70 prevents them from aggregating and being rendered nonfunctional. And it also can act to protect cells from thermal or oxidative stress. Finally, Hsp70 seems to be able to participate in disposal of damaged or defective proteins. Interaction with CHIP(Carboxyl-terminus of Hsp70 Interacting Protein)â€"an E3 ubiquitin ligaseâ€"allows Hsp70 to pass proteins to the cell's ubiquitination and proteolysis pathways.