

Anti-Hsc70 Antibody

Catalog # ABO10595

Product Information

Application	WB, IHC-P, IHC-F, ICC
Primary Accession	E9PSH5
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.

Additional Information

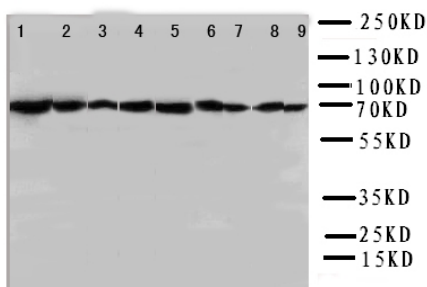
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat Immunocytochemistry , 0.5-1 µg/ml, Human, Mouse, Rat Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Mouse, Rat, Human Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
Protein Name	Heat shock cognate 71 kDa protein
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	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 reconstitution, 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.

Protein Information

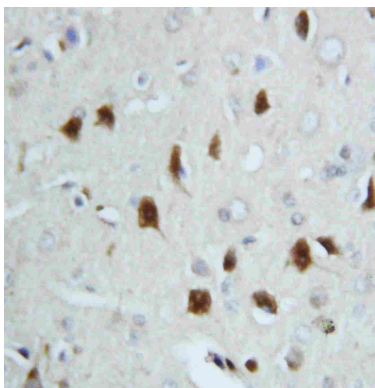
Background

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) "an E3 ubiquitin ligase" allows Hsp70 to pass proteins to the cell's ubiquitination and proteolysis pathways.

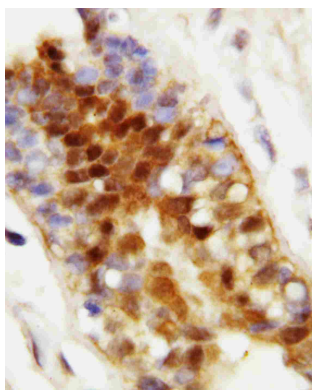
Images



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

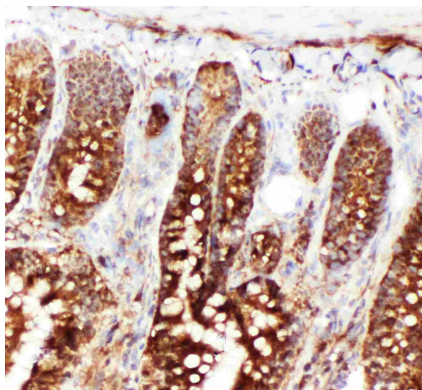
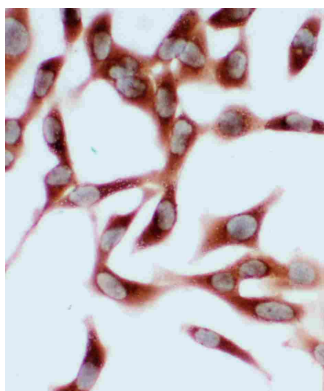


Anti-Hsc70 antibody, ABO10595, IHC(P)
 IHC(P): Rat Brain Tissue



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.