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Datasheet for ABIN3044300
anti-Hsc70 antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	Hsc70 (HSPA8)
Binding Specificity:	AA 13-31, N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Hsc70 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	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.
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.
Sequence:	TTYSCVGVFQ HGKVEIIAN
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	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. Gene Name: heat shock 70 kDa protein 8

Product Details

Protein Name: Heat shock cognate 71 kDa protein

Purification: Immunogen affinity purified.

Target Details

Target: Hsc70 (HSPA8)

Alternative Name: HSPA8 ([HSPA8 Products](#))

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.

Synonyms: 2410008N15Rik antibody|Constitutive heat shock protein 70 antibody|Heat shock 70 kDa protein 8 antibody|Heat shock 70kD protein 10 antibody|Heat shock 70kD protein 8 antibody|Heat shock 70 kDa protein 8 antibody|Heat shock cognate 71 kDa protein antibody|Heat shock cognate 71 kDa protein. antibody|Heat shock cognate protein 54 antibody|Heat shock cognate protein 71 kDa antibody|Heat shock cognate protein 71- kDa antibody|Heat shock protein 8 antibody|Heat shock protein A8 antibody|Heat-shock70-KD protein 10, formerly antibody|HSC54 antibody|HSC71 antibody|Hsc73 antibody|HSP71 antibody|HSP73 antibody|HSP7C_HUMAN antibody|HSPA10 antibody|HSPA8 antibody|LAP1 antibody|Lipopolysaccharide associated protein 1 antibody|LPS associated protein 1 antibody|LPS associated protein antibody|MGC102007 antibody|MGC106514 antibody|MGC114311 antibody|MGC118485 antibody|MGC131511 antibody|MGC29929 antibody|N-myristoyltransferase inhibitor protein 71 antibody|NIP71 antibody

UniProt: [P11142](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human
ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P), IHC(F) and ICC.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: 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.

Publications

Product cited in: Yang, Gao, Wu, Yu, Li, Meng, Li, Yan, Jin: "Epigallocatechin-3-gallate attenuates neointimal hyperplasia in a rat model of carotid artery injury by inhibition of high mobility group box 1

expression." in: **Experimental and therapeutic medicine**, Vol. 14, Issue 3, pp. 1975-1982, (2017) ([PubMed](#)).

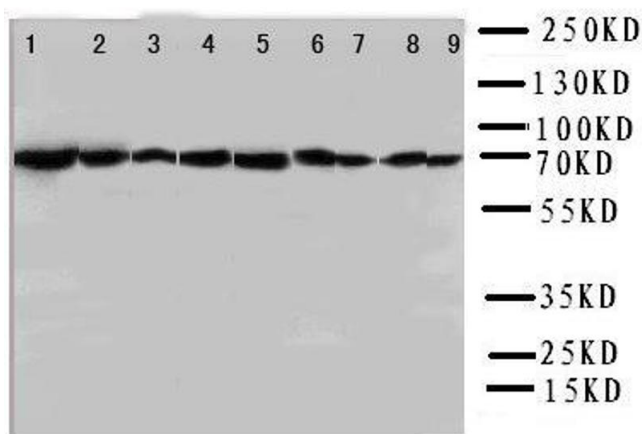
Yu, Yu, Liu, Yu, Liu, Liu, Su, Jiang, Chen: "Ethyl pyruvate attenuated coxsackievirus B3-induced acute viral myocarditis by suppression of HMGB1/RAGE/NF-KB pathway." in: **SpringerPlus**, Vol. 5, pp. 215, (2016) ([PubMed](#)).

Qin, Niu, Wang, Xu, Qiao, Gu: "Heparanase induced by advanced glycation end products (AGEs) promotes macrophage migration involving RAGE and PI3K/AKT pathway." in: **Cardiovascular diabetology**, Vol. 12, pp. 37, (2013) ([PubMed](#)).

Liu, Wang, Feng, Ma, Fu, Song, Jia, Ma: "Hypoglycemic and antioxidant activities of paeonol and its beneficial effect on diabetic encephalopathy in streptozotocin-induced diabetic rats." in: **Journal of medicinal food**, Vol. 16, Issue 7, pp. 577-86, (2013) ([PubMed](#)).

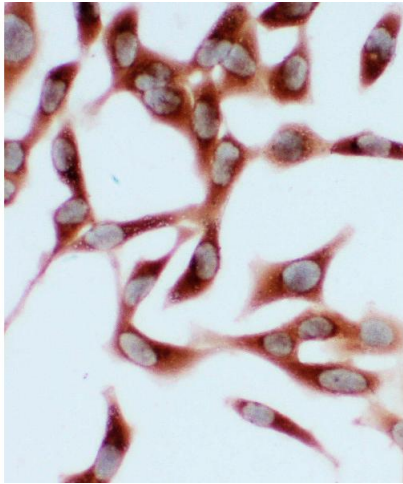
Wang, Zhang, Liu, Cui, Yang, Li, Du: "Tanshinone II A down-regulates HMGB1, RAGE, TLR4, NF-kappaB expression, ameliorates BBB permeability and endothelial cell function, and protects rat brains against focal ischemia." in: **Brain research**, Vol. 1321, pp. 143-51, (2010) ([PubMed](#)).

Images



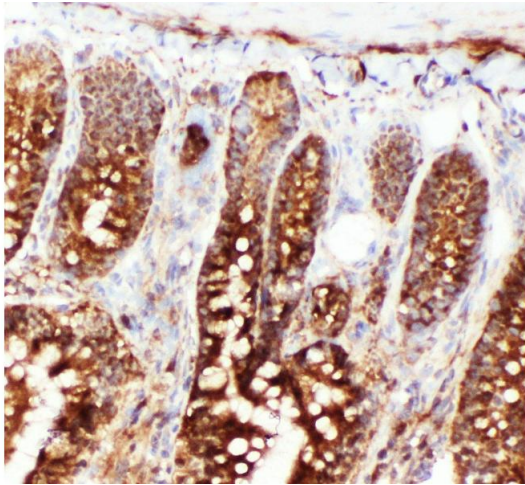
Western Blotting

Image 1. Lane 9: COL0320 Cell Lysate



Immunohistochemistry

Image 2. Anti-Hsc70 antibody, ICC ICC: HELA Cell



Immunohistochemistry

Image 3. Anti-Hsc70 antibody, IHC(F) IHC(F): Rat Intestine Tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3044300.