

Datasheet for ABIN3020878
anti-HSP70 1A antibody (C-Term)

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Overview

Quantity:	100 µL
Target:	HSP70 1A (HSPA1A)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HSP70 1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 540 to the C-terminus of human HSP70/HSPA1 (NP_005336.3).
Sequence:	NALESYAFNM KSAVEDEGLK GKISEADKKK VLDKCQEVIS WLDANTLAEK DEFEHKRKEL EQVCNPIISG LYQGAGGPGP GGFGAQGPKG GSGSGPTIEE VD
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	HSP70 1A (HSPA1A)
Alternative Name:	HSPA1A (HSPA1A Products)
Background:	<p>This intronless gene encodes a 70 kDa heat shock protein which is a member of the heat shock protein 70 family. In conjunction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-rich element RNA-binding protein 1. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which encode similar proteins.,HSPA1A,HEL-S-103,HSP70-1,HSP70-1A,HSP70.1,HSP70I,HSP72,HSPA1,HSP70,Cell Biology & Developmental Biology,Apoptosis,Inhibition of Apoptosis,Endocrine & Metabolism,Mitochondrial metabolism,Neuroscience,Neurodegenerative Diseases,HSPA1A</p>
Molecular Weight:	70 kDa
Gene ID:	3303
UniProt:	P0DMV8
Pathways:	Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

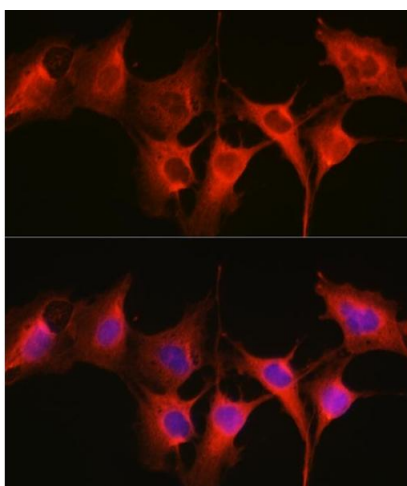
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

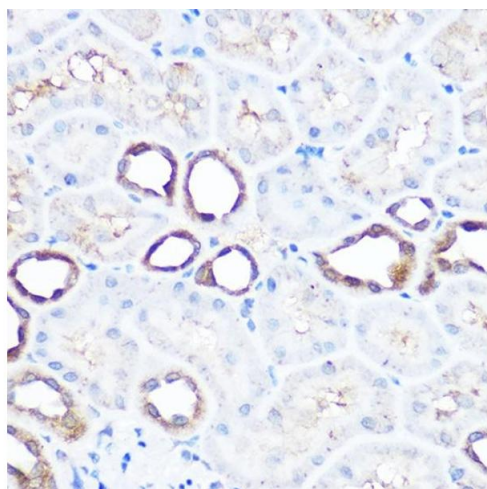
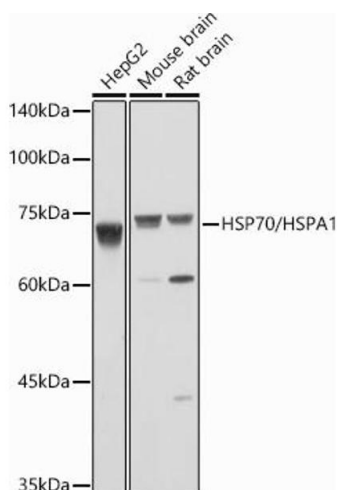
- Product cited in:
- Ding, Chen, Zhang, Huang, Zang, Li, Li, Wong: "Regulation of Ubiquitin-like with Plant Homeodomain and RING Finger Domain 1 (UHRF1) Protein Stability by Heat Shock Protein 90 Chaperone Machinery." in: **The Journal of biological chemistry**, Vol. 291, Issue 38, pp. 20125-35, (2017) ([PubMed](#)).
- Geng, Li, Huang, Chai, Zheng, Li, Jiang: "Functional analysis of HSPA1A and HSPA8 in parturition." in: **Biochemical and biophysical research communications**, Vol. 483, Issue 1, pp. 371-379, (2017) ([PubMed](#)).
- Wang, Yu, Wang, Li, Li, Wang, Song, Chu, Li: "Gold-nanorods-siRNA nanoplex for improved photothermal therapy by gene silencing." in: **Biomaterials**, Vol. 78, pp. 27-39, (2016) ([PubMed](#)).
- Zhou, Jiang, Dong, Yan, You, Su, Gong: "The proteins interacting with C-terminal of μ receptor are identified by bacterial two-hybrid system from brain cDNA library in morphine-dependent rats." in: **Life sciences**, Vol. 143, pp. 156-67, (2016) ([PubMed](#)).
- Ye, Chen, Zhang, Miao, Zohaib, Xu, Chen, Cao: "Heat shock protein 70 is associated with replicase complex of Japanese encephalitis virus and positively regulates viral genome replication." in: **PLoS ONE**, Vol. 8, Issue 9, pp. e75188, (2013) ([PubMed](#)).

Images



Immunofluorescence

Image 1. Immunofluorescence analysis of C6 cells using HSP70/HSP Rabbit pAb at dilution of 1:250 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using HSP70/HSP antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.

Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded rat kidney using HSP70/HSP Rabbit pAb at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3020878.