

Datasheet for ABIN2856787  
**anti-HSP70 1A antibody (Center)**

7 Images

1 Publication

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## Overview

Quantity:	100 µL
Target:	HSP70 1A (HSPA1A)
Binding Specificity:	Center
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human HSP70 1A. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Sheep (Ovine), Cow (Bovine)
Cross-Reactivity (Details):	Sheep (100 %), Bovine (100 %)
Characteristics:	Rabbit Polyclonal antibody to HSP70 1A (heat shock 70 kDa protein 1A) HSP70 1A antibody
Purification:	Purified by antigen-affinity chromatography.

## Target Details

Target:	HSP70 1A (HSPA1A)
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## Target Details

Alternative Name:	HSPA1A ( <a href="#">HSPA1A Products</a> )
Background:	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.
Molecular Weight:	70 kDa
Gene ID:	3303
Pathways:	<a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a>

## Application Details

Application Notes:	Suggested dilution Reference ICC/IF 1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections) 1:100-1:1000* Immunoprecipitation 1:500-1:1000* Western blot 1:5000-1:20000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceICC/IF1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections)1:100-1:1000* Immunoprecipitation1:500-1:1000* Western blot1:5000-1:20000*
Comment:	Positive Control: 293T , NIH-3T3 , Mouse brain , PC-12 , Rat brain , Jurkat , Raji , 293T , A431 , HeLa , HepG2 , H1299 , HCT116 , MCF-7 , NT2D1 , PC-3 , U87-MG , *Mesenchymal stem cells
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris, 0.1M Glycine, 10 % Glycerol ( pH 7). 0.01 % Thimerosal was added as a preservative.
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

Storage: -20 °C

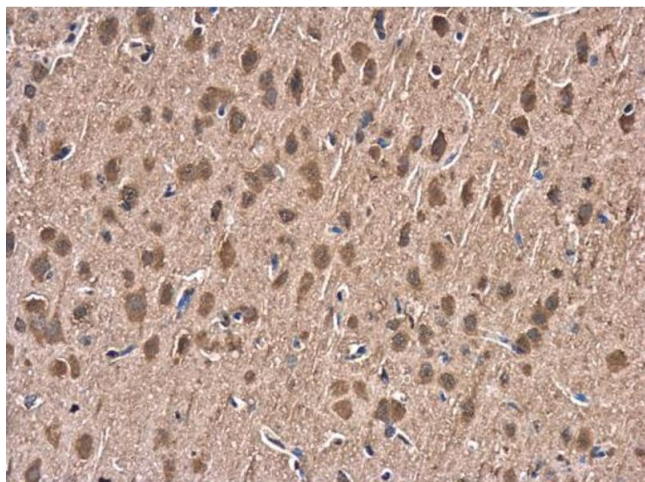
Storage Comment: Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

## Publications

Product cited in: Wu, Ming, Zhang, Wu, Wu, Yao: "Edaravone rescues the lung by inhibiting lipid peroxidation and pro-inflammatory cytokines in a rat model." in: **Chinese medical journal**, Vol. 127, Issue 5, pp. 968-70, (2014) ([PubMed](#)).

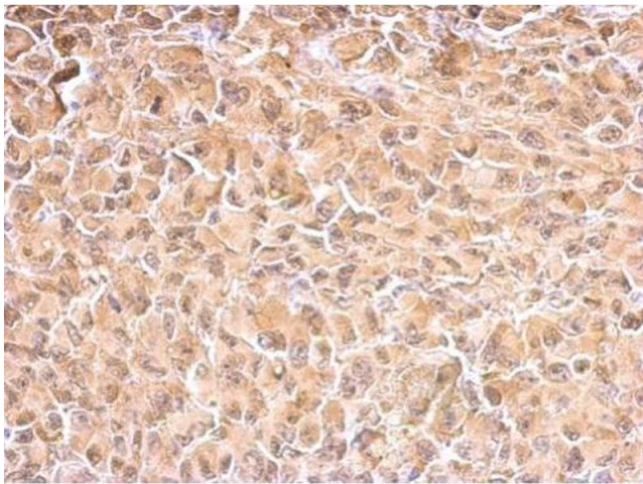
Chen, Wei, Zhuang, Qiao, Tang, Zhang, Wei, Fang, Chen, Du, Huang, Jiang, Hu, Hua: "Proteomic screening of anaerobically regulated promoters from Salmonella and its antitumor applications." in: **Molecular & cellular proteomics : MCP**, Vol. 10, Issue 6, pp. M111.009399, (2011) ([PubMed](#)).

## Validation report #101762 for Western Blotting (WB)



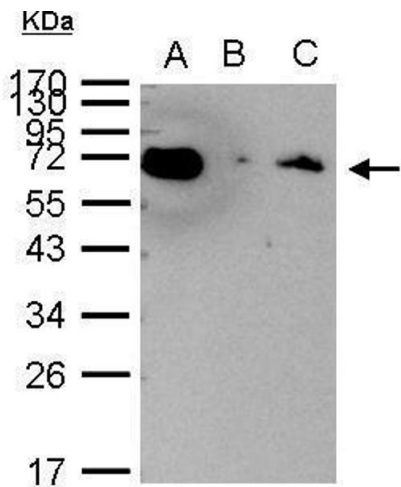
### Immunohistochemistry

**Image 1.** IHC-P Image HSP70 1A antibody detects HSP70 1A protein at cytoplasm in rat brain by immunohistochemical analysis. Sample: Paraffin-embedded rat brain. HSP70 1A antibody, diluted at 1:500.



Immunohistochemistry

**Image 2.** IHC-P Image HSP70 1A antibody detects HSPA1A protein at cytosol on H1299 xenograft by immunohistochemical analysis. Sample: Paraffin-embedded H1299 xenograft. HSP70 1A antibody , dilution: 1:500.



Immunoprecipitation

**Image 3.** IP Image HSP70 1A antibody immunoprecipitates HSP70 1A protein in IP experiments. IP Sample: 1000 µg HeLa whole cell lysate/extract A. 40 µg HeLa whole cell lysate/extract B. Control with 2.5 µg of preimmune rabbit IgG C. Immunoprecipitation of HSP70 1A protein by 2.5 µg of HSP70 1A antibody , 12% SDS-PAGE The immunoprecipitated HSP70 1A protein was detected by HSP70 1A antibody , diluted at 1:1000. EasyBlot anti-rabbit IgG was used as a secondary reagent.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN2856787.