For Research Use Only

HSP70 Polyclonal antibody

Catalog Number: 10995-1-AP

Featured Product

218 Publications



Basic Information

 Catalog Number:
 GenBank Accession Number:

 10995-1-AP
 BC009322

 Size:
 GeneID (NCBI):

 750 µg/ml
 3303

 Source:
 UNIPROT ID:

 Rabbit
 PODMV8

Rabbit PODMV8
Isotype: Full Name:

gG heat shock 70kDa protein 1A

Immunogen Catalog Number: Calculated MW: AG1446 70 kDa

Observed MW:

66-70 kDa

Purification Method: Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC 1:50-1:500 IF 1:50-1:500

Applications

Tested Applications:

FC, IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

WB, IP, IF, FC, IHC, CoIP, ELISA, Cell treatment

Species Specificity: human, mouse, rat

Cited Species: human, chicken, rat, ostrich, mouse, oyster, pig, C.

elegans, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 Positive Controls:

WB: A431 cells, human urine exosomes tissue, A549 cells, HeLa cells, Jurkat cells, mouse brain, HEK-293 cells, mouse kidney, rat kidney

IP: mouse brain tissue.

IHC: human breast cancer tissue, human liver cancer tissue, mouse skin tissue

IF: HeLa cells, HepG2 cells

Background Information

HSPA1A, collectively known as HSP70 (also referred to HSP72), is a stress-inducible member of heat-shock protein 70 (HSP70) proteins which are highly conserved chaperons implicated in protein folding, protein refolding, protein transport, and protein targeting. Encoded by two closely linked, intronless and stress-inducible genes, HSPA1A and HSPA1B differ by only two amino acids and are believed to be fully interchangeable proteins. HSPA1A is a cytosol/nuclear protein able to translocate between cytoplasm and nucleus. Generally, HSPA1A is thought to be expressed in unstressed normal cells at low or undetectable levels. Expression of HSPA1A protein can be highly activated by various stressful stimuli. Significant up-regulation of HSPA1A has been found in various tumors. Recently it has been reported that HSPA1A can be constitutively expressed in selected cell types. HSP70 is a useful marker for exosome. This antibody well recognized the endogenous HSP70 protein in multiple cell lines. (21373891)

Notable Publications

Author	Pubmed ID	Journal	Application
Lihua Luo	34593005	J Nanobiotechnology	WB
Yi Ma	33000559	Andrology	WB
Zundong Liu	34556812	Oncogene	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

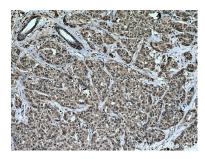
For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

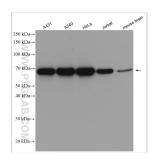
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

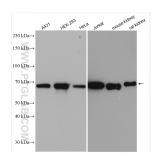
Selected Validation Data



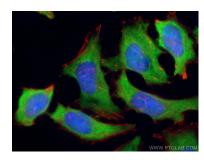
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 10995-1-AP (HSP70 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



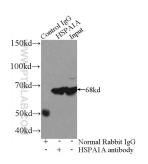
Various lysates were subjected to SDS PAGE followed by western blot with 10995-1-AP (HSP70 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



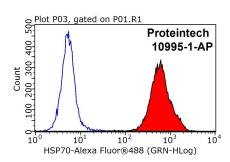
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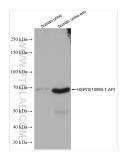
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 10995-1-AP (HSP70 antibody), at dilution of 1:200 and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). F-actin was stained with CL594-phalloidin.



IP result of anti-HSP70 (IP:10995-1-AP, 3ug; Detection:10995-1-AP 1:1000) with mouse brain tissue lysate 3600ug.



1X10^6 HepG2 cells were stained with 0.2ug HSP70 antibody (10995-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



human urine exosomes tissue were subjected to SDS PAGE followed by western blot with 10995-1-AP (HSP70 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.