

For Research Use Only

HSPA4 Polyclonal antibody

Catalog Number: 21206-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

21206-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 253 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15581

GenBank Accession Number:

BC110861

GeneID (NCBI):

3308

UNIPROT ID:

P34932

Full Name:

heat shock 70kDa protein 4

Calculated MW:

840 aa, 94 kDa

Observed MW:

110 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, ELISA

Species Specificity:

human, mouse, rat, monkey

Cited Species:

human, mouse

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: C6 cells, HEK-293 cells, mouse testis tissue, NIH/3T3 cells, mouse brain tissue, rat brain tissue

IP: mouse brain tissue,

IHC: human colon cancer tissue, human breast cancer tissue, human pancreas cancer tissue

IF/ICC: MCF-7 cells, HepG2 cells

Background Information

HSPA4 (also known as Apg-2, HSP70RY) is a 110 kDa cytosolic protein, a member of the heat-shock protein 110 (HSP110) subfamily of HSP70 proteins which are highly conserved chaperons implicated in protein folding, protein refolding, protein transport, and protein targeting. HSPA4 is ubiquitously expressed and its expression is not heat inducible. Overexpression of HSPA4 has been reported in some leukemia and solid tumors. This antibody well recognized the endogenous HSPA4 protein in mouse brain/ testis tissues. (PMID: 21487003)

Notable Publications

Author	Pubmed ID	Journal	Application
Lingjun Jiang	33746584	Int J Med Sci	WB
Yang Yang	27592453	Int J Biochem Cell Biol	WB
Yuan-Qin Min	37211047	Mol Cell Proteomics	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

*** 20ul sizes contain 0.1% BSA

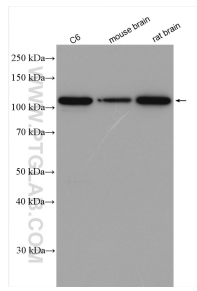
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

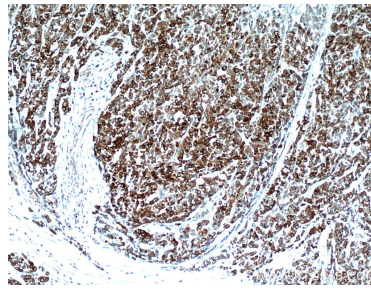
E: proteintech@ptglab.com
W: ptglab.com

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

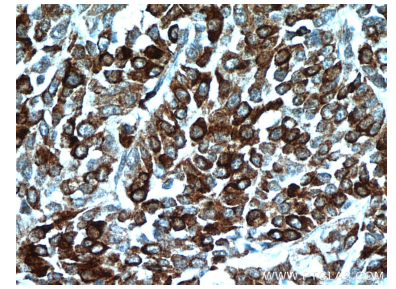
Selected Validation Data



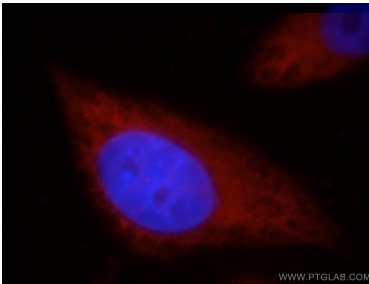
Various lysates were subjected to SDS PAGE followed by western blot with 21206-1-AP (HSPA4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



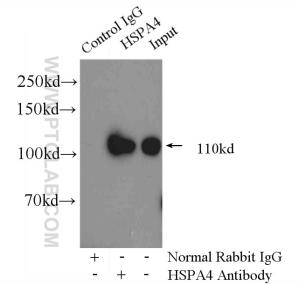
Immunohistochemical analysis of paraffin-embedded human colon cancer using 21206-1-AP (HSPA4 antibody) at dilution of 1:100 (under 10x lens).



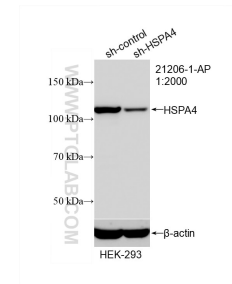
Immunohistochemical analysis of paraffin-embedded human colon cancer using 21206-1-AP (HSPA4 antibody) at dilution of 1:100 (under 40x lens).



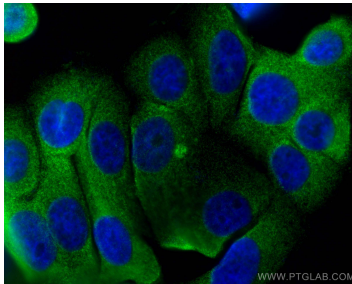
Immunofluorescent analysis of HepG2 cells, using HSPA4 antibody 21206-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



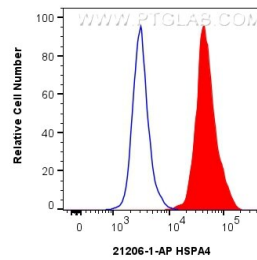
IP result of anti-HSPA4 (IP:21206-1-AP, 4ug; Detection:21206-1-AP 1:1000) with mouse brain tissue lysate 4000ug.



WB result of HSPA4 antibody (21206-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HSPA4 transfected HEK-293 cells.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using HSPA4 antibody (21206-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1×10^6 C6 cells were intracellularly stained with 0.4 ug HSPA4 Polyclonal antibody (21206-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).