

For Research Use Only

HSPA1B Polyclonal antibody

Catalog Number: 25405-1-AP

8 Publications



Basic Information

Catalog Number:

25405-1-AP

Size:

150ul, Concentration: 650 ug/ml by Nanodrop and 253 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13700

GenBank Accession Number:

BC057397

GeneID (NCBI):

3304

UNIPROT ID:

P08107

Full Name:

heat shock 70kDa protein 1B

Calculated MW:

70 kDa

Observed MW:

60-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:50000

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

IHC 1:5000-1:20000

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

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: HEK-293 cells, mouse brain tissue, rat brain tissue, HeLa cells, K-562 cells

IP: HEK-293 cells, K-562 cells

IHC: human tonsillitis tissue, human stomach tissue

Background Information

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. HSP70 is a cytosol/nuclear protein able to translocate between cytoplasm and nucleus. Generally, HSP70 is thought to be expressed in unstressed normal cells at low or undetectable levels. Expression of HSP70 protein can be highly activated by various stressful stimuli. Significant up-regulation of HSP70 has been found in various tumors. Recently it has been reported that HSP70 can be constitutively expressed in selected cell types. HSP70 is also used as exosomal marker. This antibody recognizes two isoforms of HSP70 around 70 kDa and 60 kDa, respectively.

Notable Publications

Author	Pubmed ID	Journal	Application
Yong Chen	36224027	Front Biosci (Landmark Ed)	WB
Simona Cugusi	36121223	Mol Cell Biol	WB
Huikang Tao	33791790	Hum Mol Genet	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

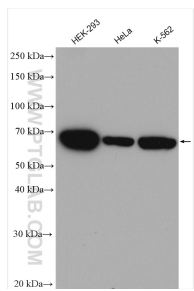
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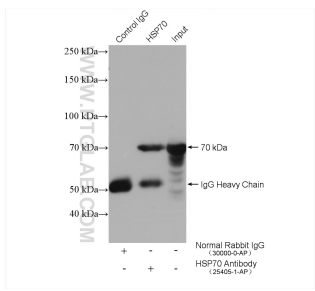
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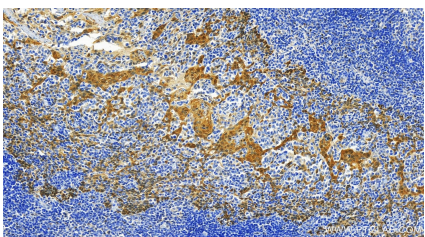
Selected Validation Data



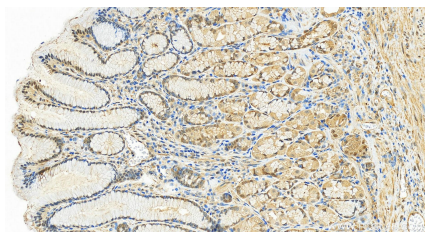
Various lysates were subjected to SDS PAGE followed by western blot with 25405-1-AP (HSP70 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



IP result of anti-HSP70 (IP:25405-1-AP, 4ug; Detection:25405-1-AP 1:5000) with HEK-293 cells lysate 2320 ug.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 25405-1-AP (HSP70 antibody) at dilution of 1:10000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 25405-1-AP (HSPA1B antibody) at dilution of 1:10000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).