

For Research Use Only

# HSPA1B Polyclonal antibody, PBS Only

Catalog Number: 25405-1-PBS



## Basic Information

<b>Catalog Number:</b> 25405-1-PBS	<b>GenBank Accession Number:</b> BC057397	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3304	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P08107	
<b>Isotype:</b> IgG	<b>Full Name:</b> heat shock 70kDa protein 1B	
<b>Immunogen Catalog Number:</b> AG13700	<b>Calculated MW:</b> 70 kDa	
	<b>Observed MW:</b> 60-70 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, IP, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## 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.

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

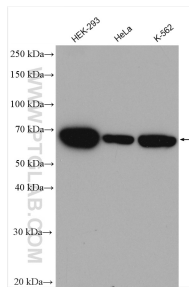
For technical support and original validation data for this product please contact:

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

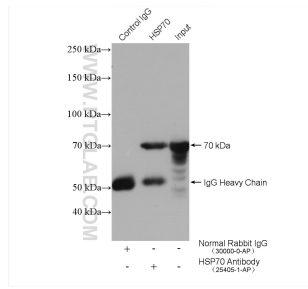
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

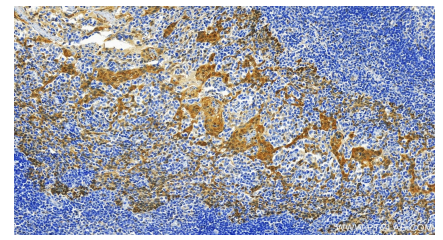
## Selected Validation Data



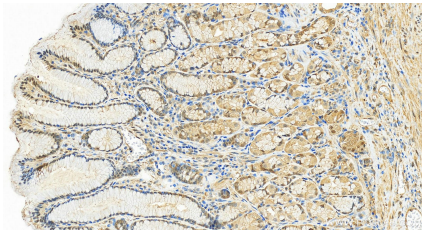
Various lysates were subjected to SDS PAGE followed by western blot with 25405-1-AP (HSP70 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 25405-1-PBS in a different storage buffer formulation.



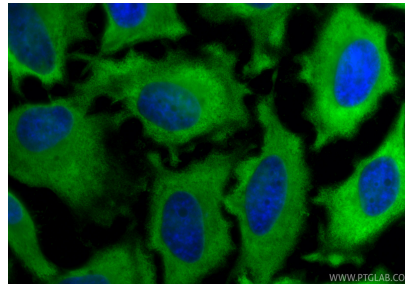
IP result of anti-HSP70 (IP:25405-1-AP, 4ug; Detection:25405-1-AP 1:5000) with HEK-293 cells lysate 2320 ug. This data was developed using the same antibody clone with 25405-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 25405-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 25405-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using HSPA1B antibody (25405-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 25405-1-PBS in a different storage buffer formulation.