### For Research Use Only

# HSP27 Polyclonal antibody

Catalog Number: 18284-1-AP

Featured Product

41 Publications



**Basic Information** 

Catalog Number: GenBank Accession Number:

18284-1-AP BC012768 GeneID (NCBI): Size:

150ul , Concentration: 700 ug/ml by Nanodrop:

**UNIPROT ID:** P04792 Rabbit Full Name:

Isotype: heat shock 27kDa protein 1

IgG Calculated MW: Immunogen Catalog Number: 19-23 kDa AG13161 Observed MW:

27 kDa

**Applications** 

**Tested Applications:** 

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

Cited Applications: WB, IHC, IF, IP, CoIP, ELISA Species Specificity: human, mouse, rat

**Cited Species:** 

human, mouse, rat, pig, chicken, fish

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: A549 cells, HeLa cells, C6 cells, mouse liver

**Purification Method:** 

WB: 1:5000-1:50000

IF/ICC: 1:50-1:500

100 µl suspension

IHC: 1:50-1:500

Antigen affinity purification

FC (Intra): 0.50 ug per 10^6 cells in a

Recommended Dilutions:

tissue, HepG2 cells, U2OS cells

IHC: human lung cancer tissue, human liver cancer

tissue, human gliomas tissue IF/ICC: HeLa cells, MCF-7 cells FC (Intra): MCF-7 cells,

## **Background Information**

HSPB1, also known as heat shock protein 27 (HSP27), belongs to the small heat shock protein family which is induced in response to environmental challenges or/and developmental transitions. It is also an anti-apoptotic protein that plays crucial roles in tumorigenesis and cell survival and is reported to be an independent prognosis marker for cancer. Recently HSPB1 has been found to be a valuable marker for melanoma. In addition to the predicted 27 kDa, an extra 50-55 kDa representing dimeric form of HSPB1 may also be observed (PMID: 21353161). It's notable that mouse HSP27 is also named HSP25 and has the predicted MW between 19-23 kDa.

### **Notable Publications**

Author	Pubmed ID	Journal	Application
Yini Dang	36297287	Pharmaceuticals (Basel)	WB
Folnetti A Alvarez	36114323	Breast Cancer Res Treat	WB
Ying Wang	31492751	J Biol Chem	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

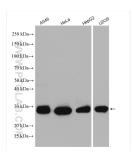
For technical support and original validation data for this product please contact:

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

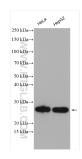
E: proteintech@ptglab.com W: ptglab.com

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

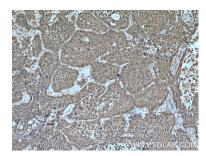
### Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 18284-1-AP (HSP27 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.

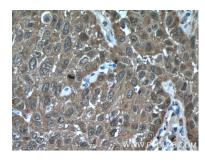


Various lysates were subjected to SDS PAGE followed by western blot with 18284-1-AP (HSP27 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.

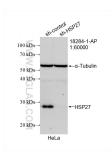


Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 18284-1-AP (HSP27 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

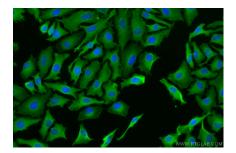
1X10^6 MCF-7 cells were intracellularly stained with 0.5 ug Anti-Human HSP27 (18284-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.5 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 18284-1-AP (HSP27 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of HSP27 antibody (18284-1-AP; 1:60000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HSP27 transfected HeLa cells.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using HSP27 antibody (18284-1-AP) at dilution of 1:200 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).