

HSP27

Polyclonal ANTIBODY

Catalog Number: 18284-1-AP

11 Publications

Basic Information

Catalog Number:
18284-1-AP

Size:
62 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG13161

GenBank Accession Number:
BC012768

GeneID (NCBI):
3315

Full Name:
heat shock 27kDa protein 1

Calculated MW:
19-23 kDa

Observed MW:
24-27 kDa

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

IF 1:50-1:500

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IF, WB

Species Specificity:

human, rat, mouse

Cited Species:

human, mouse, rat

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

Positive Controls:

WB : HeLa cells; human skeletal muscle tissue, MCF-7 cells, human stomach tissue, mouse liver tissue, C6 cells

IHC : human lung cancer tissue; human liver cancer tissue

IF : HeLa cells; 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 (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
Shuai peng Ma	26560306	Antioxid Redox Signal	WB
Lihua Yang	24599545	Mol Reprod Dev	WB
Emil Ylikallio	26675522	BBA Clin	WB,IF

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

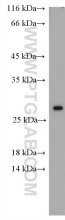
For technical support and original validation data for this product please contact:

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

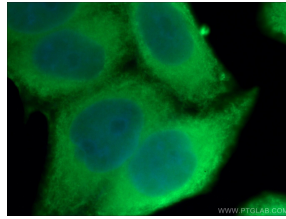
E: proteintech@ptglab.com
W: ptglab.com

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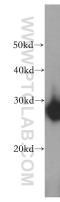
Selected Validation Data



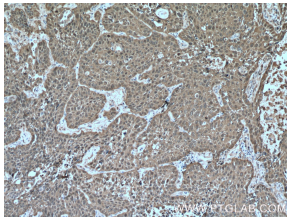
mouse liver tissue were subjected to SDS PAGE followed by western blot with 18284-1-AP (HSP27 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours



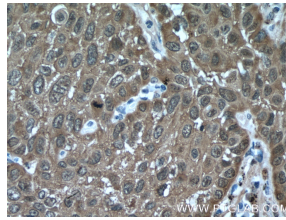
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 18284-1-AP (HSP27 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



HeLa cells were subjected to SDS PAGE followed by western blot with 18284-1-AP(HSP27 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours



Immunohistochemistry of paraffin-embedded human lung cancer tissue slide using 18284-1-AP(HSP27 antibody) at dilution of 1:200 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



Immunohistochemistry of paraffin-embedded human lung cancer tissue slide using 18284-1-AP(HSP27 antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer(pH9).