For Research Use Only

Phospho-HSP27 (Ser78) Polyclonal antibody

Catalog Number:28900-1-AP 2 Publications

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Basic Information

Catalog Number:
28900-1-AP

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC012768

GeneID (NCBI):
3315

UNIPROT ID:
P04792

Full Name:
heat shock 27kDa protein 1

Calculated MW:
19-23 kDa

Observed MW:
27-30 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:2000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB

Species Specificity:
Human, Mouse, Rat

Cited Species:
human

Positive Controls:

WB : TNF-alpha treated HeLa cells, Calyculin A treated HeLa cells, Calyculin A treated PC-3 cells

Background Information

HSPB1, also named as HSP27, belongs to the mammalian small HSP family widely expressed in cells including the cytoplasm and nucleus. It has been reported that HSPB1 plays a key role in stress resistance, actin organization and numerous biological processes. HSPB1 can be phosphorylated in different stimulation such as cytokines, growth factors and peptide hormones on the site of Ser15, Ser78 and Ser82 by MAPKAP2 kinase. The phosphorylation of HSPB1 leads to a decrease in the size of HSPB1 oligomers. HSPB1 is associated with amyotrophic lateral sclerosis (ALS) (PMID: 8542580, 11960785, 10383393, 32231288)

Notable Publications

Author	Pubmed ID	Journal	Application
Xinxing Zhu	41481720	Sci Adv	WB
Sihan He	37780830	JOR Spine	WB

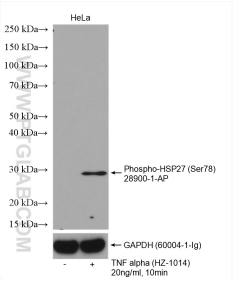
Storage

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

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

Selected Validation Data



Non-treated HeLa and TNF alpha (HZ-1014) treated HeLa cells were subjected to SDS PAGE followed by western blot with 28900-1-AP (Phospho-HSP27 (Ser78) antibody) at dilution of 1:1000 incubated at 4℃ overnight. The membrane was stripped and re-blotted with GAPDH antibody as loading control.