

For Research Use Only

# Phospho-HSP27 (Ser15) Recombinant antibody

Catalog Number: 83332-3-RR



## Basic Information

Catalog Number:

83332-3-RR

Concentration:

1000 ug/ml

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 kDa

Purification Method:

Protein A purification

CloneNo.:

2D4

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:200-1:800

## Applications

Tested Applications:

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

Species Specificity:

human

Positive Controls:

WB : Anisomycin treated HeLa cells,

IF/ICC : Anisomycin treated HeLa 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)

## 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:

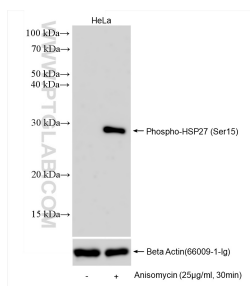
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E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

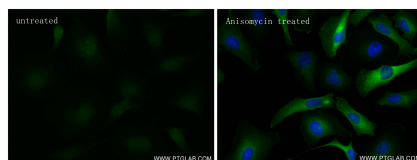
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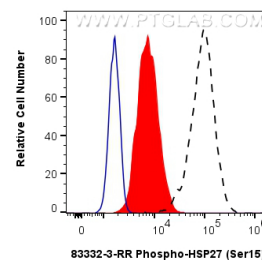
## Selected Validation Data



Non-treated HeLa cells, and anisomycin treated HeLa cells were subjected to SDS PAGE followed by western blot with 83332-3-RR (Phospho-HSP27 (Ser15) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin(66009-1-Ig) antibody as loading control.



Immunofluorescent analysis of (-20°C Ethanol) fixed Anisomycin treated HeLa cells using Phospho-HSP27 (Ser15) antibody (83332-3-RR, Clone: 2D4 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



$1 \times 10^6$  HeLa cells untreated (dashed lines) or treated with  $\lambda$  phosphatase which intracellularly stained with 0.13 ug Phospho-HSP27 (Ser15) Recombinant antibody (83332-3-RR, Clone:2D4) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.13 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.