

For Research Use Only

# CoraLite® Plus 647-conjugated Phospho-HSP27 (Ser15) Recombinant antibody

Catalog Number: CL647-83332-3



## Basic Information

### Catalog Number:

CL647-83332-3

### Size:

100ul , Concentration: 1000 ug/ml by  
Nanodrop;

### 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

### Excitation/Emission maxima wavelengths:

654 nm / 674 nm

## Applications

### Tested Applications:

FC (Intra)

### Species Specificity:

human

## 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. Avoid exposure to light. Stable for one year after shipment.

### Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

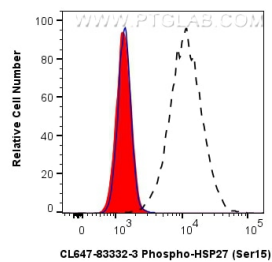
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1X10<sup>6</sup> HeLa cells untreated (dashed lines) or treated with  $\lambda$  phosphatase which intracellularly stained with 0.25 ug Coralite® Plus 647 Phospho-Hsp27 (Ser15) Recombinant Antibody (CL647-83332-3, Clone:2D4)(red), or 0.25 ug Coralite® Plus 647 Rabbit IgG Isotype Control RecAb (CL647-98136, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.