Phospho-HSP27 (Ser78) Recombinant antibody, PBS Only

Catalog Number:80046-3-PBS

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Basic Information

Catalog Number:
80046-3-PBS

Size:
100ug , Concentration: 1 mg/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:
25-30 kDa

Purification Method:
Protein A purfication

CloneNo.:
241528D11

Applications

Tested Applications:
WB, Indirect ELISA

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)
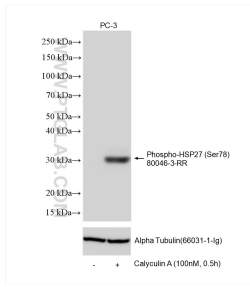
Storage

Storage:
Store at -80℃.
Storage Buffer:
PBS Only

Selected Validation Data

Non treated and Calyculin A treated PC-3 cells were subjected to SDS PAGE followed by western blot with 80046-3-RR (Phospho-HSP27 (Ser78) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control. This data was developed using the same antibody clone with 80046-3-PBS in a different storage buffer formulation.