

# Phospho-HSP27/HSPB1-S15 Rabbit pAb

Catalog No.: AP0040

1 Publications

## Basic Information

**Observed MW**

27kDa

**Calculated MW**

23kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IP

**Cross-Reactivity**

Human

## Background

This gene encodes a member of the small heat shock protein (HSP20) family of proteins. In response to environmental stress, the encoded protein translocates from the cytoplasm to the nucleus and functions as a molecular chaperone that promotes the correct folding of other proteins. This protein plays an important role in the differentiation of a wide variety of cell types. Expression of this gene is correlated with poor clinical outcome in multiple human cancers, and the encoded protein may promote cancer cell proliferation and metastasis, while protecting cancer cells from apoptosis. Mutations in this gene have been identified in human patients with Charcot-Marie-Tooth disease and distal hereditary motor neuropathy.

## Recommended Dilutions

**WB** 1:500 - 1:1000**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

## Immunogen Information

**Gene ID**

3315

**Swiss Prot**

P04792

**Immunogen**

A synthetic phosphorylated peptide around S15 of human HSP27/HSPB1 (NP\_001531.1).

**Synonyms**

CMT2F; HMN2B; HSP27; HSP28; Hsp25; SRP27; HS.76067; HEL-S-102; Phospho-HSP27/HSPB1-S15

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

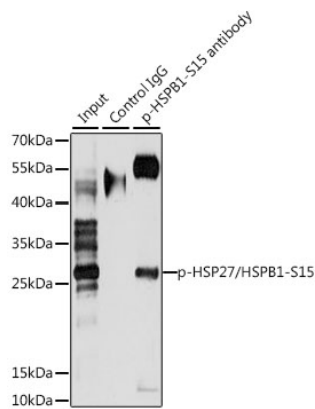
Affinity purification

**Storage**

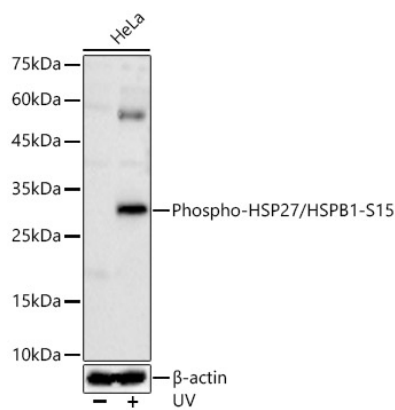
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Validation Data



Immunoprecipitation analysis of 200 µg extracts of HeLa cells, using 3 µg Phospho-HSP27/HSPB1-S15 pAb (AP0040). Western blot was performed from the immunoprecipitate using Phospho-HSP27/HSPB1-S15 pAb (AP0040) at a dilution of 1:1000. HeLa cells were treated by EGF (100 ng/mL) at 37°C for 30 minutes after serum-starvation overnight.



Western blot analysis of lysates from HeLa cells, using Phospho-HSP27/HSPB1-S15 Rabbit pAb (AP0040) at 1:600 dilution. HeLa cells were treated by UV at room temperature for 15-30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.