AP0041

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Phospho-HSP27/HSPB1-S82 Rabbit pAb

Catalog No.: AP0041 4 Publications

Basic Information

Observed MW
28kDa

Calculated MW
23kDa

Category
Polyclonal Antibody

Applications
WB,IHC-P,IP,ELISA

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 - 1:2000
IHC-P	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Contact

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Immunogen Information

Gene ID
3315

Swiss Prot
P04792

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
CMT2F; HMN2B; HSP27; HSP28; Hsp25; SRP27; HS.76067; HEL-S-102; Phospho-HSP27/HSPB1-S82

Product Information

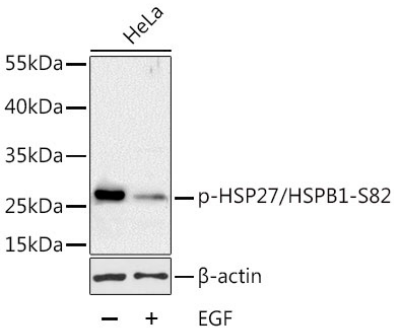
Source
Rabbit

Isotype
IgG

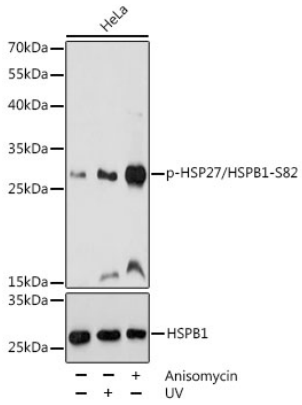
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,50% glycerol,pH7.3.

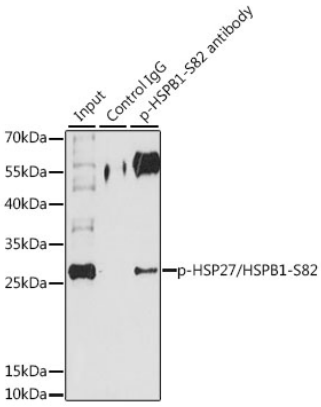
Validation Data



Western blot analysis of lysates from HeLa cells, using Phospho-HSP27/HSPB1-S82 Rabbit pAb (AP0041) at 1:1000 dilution. HeLa cells were treated with EGF (100ng/mL) for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% BSA.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1min.



Western blot analysis of lysates from HeLa cells, using Phospho-HSP27/HSPB1-S82 pAb (AP0041) at 1:1000 dilution or HSP27/HSPB1 antibody (A16332). HeLa cells were treated with UV at room temperature for 15-30 minutes.HeLa cells were treated with Anisomycin (25 μg/mL) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% BSA.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



Immunoprecipitation analysis of 200 μg extracts of HeLa cells, using 3 μg Phospho-HSP27/HSPB1-S82 pAb (AP0041). Western blot was performed from the immunoprecipitate using Phospho-HSP27/HSPB1-S82 pAb (AP0041) at a dilution of 1:1000. HeLa cells were treated with EGF (100 ng/mL) at 37℃ for 30 minutes after serum-starvation overnight.