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Phospho-Cofilin-S3 Rabbit mAb

Catalog No.: AP1607 Recombinant

Basic Information

Observed MW
19 kDa

Calculated MW
19 kDa

Category
Primary antibody

Applications
WB,IF/ICC,IHC-P,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC78558

Background

The protein encoded by this gene can polymerize and depolymerize F-actin and G-actin in a pH-dependent manner. Increased phosphorylation of this protein by LIM kinase aids in Rho-induced reorganization of the actin cytoskeleton. Cofilin is a widely distributed intracellular actin-modulating protein that binds and depolymerizes filamentous F-actin and inhibits the polymerization of monomeric G-actin in a pH-dependent manner. It is involved in the translocation of actin-cofilin complex from cytoplasm to nucleus.

Recommended Dilutions

WB	1:2000 - 1:15000
IF/ICC	1:700 - 1:4000
IHC-P	1:4000 - 1:16000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000)a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
1072

Swiss Prot
P23528

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

Synonyms
CFL; cofilin; HEL-S-15

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

400-999-6126

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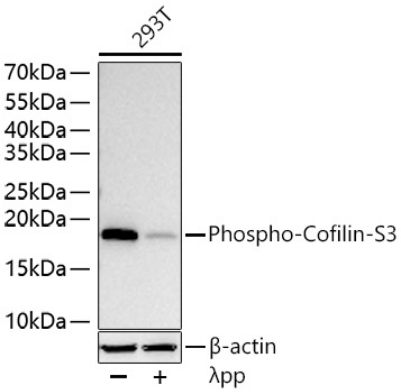
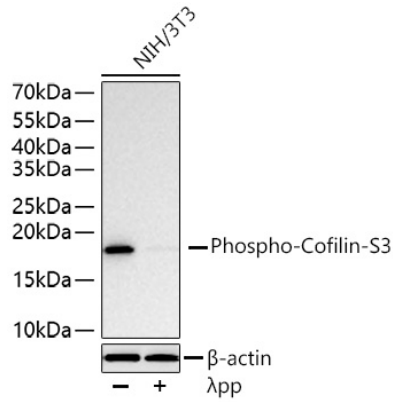
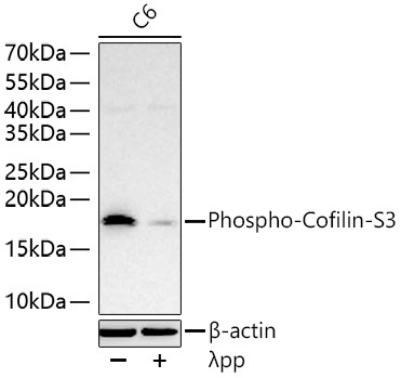
Validation Data



Western blot analysis of lysates from 293T cells using Phospho-Cofilin-S3 Rabbit mAb (AP1607) at 1:5000 dilution incubated overnight at 4℃. 293T cells were treated with λpp (2 U/μL) at 30℃ for 1 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5 s.

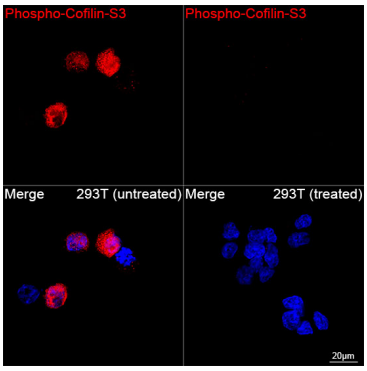


Western blot analysis of lysates from NIH/3T3 cells using Phospho-Cofilin-S3 Rabbit mAb (AP1607) at 1:5000 dilution incubated overnight at 4℃. NIH/3T3 cells were treated with λpp (2 U/μL) at 30℃ for 1 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5 s.

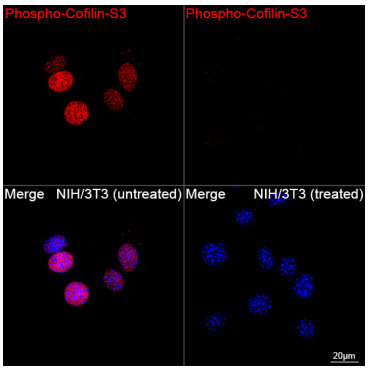


Western blot analysis of lysates from C6 cells using Phospho-Cofilin-S3 Rabbit mAb (AP1607) at 1:5000 dilution incubated overnight at 4℃. C6 cells were treated with λpp (2 U/μL) at 30℃ for 1 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.

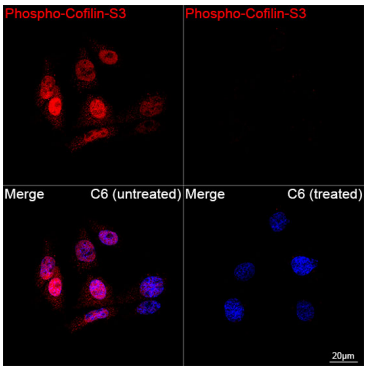
Validation Data



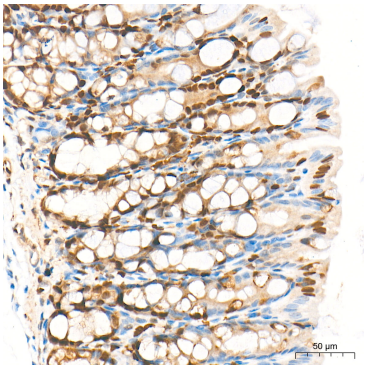
Confocal imaging of 293T cells (untreated) and 293T cells (treated with λpp) using Phospho-Cofilin-S3 Rabbit mAb (AP1607, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



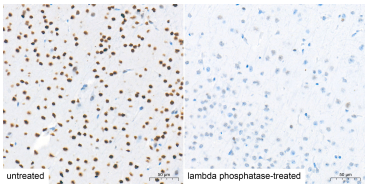
Confocal imaging of NIH/3T3 cells (untreated) and NIH/3T3 cells (treated with λpp) using Phospho-Cofilin-S3 Rabbit mAb (AP1607, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



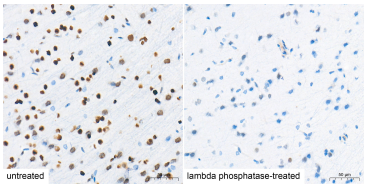
Confocal imaging of C6 cells (untreated) and C6 cells (treated with λpp) using Phospho-Cofilin-S3 Rabbit mAb (AP1607, dilution 1:700) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



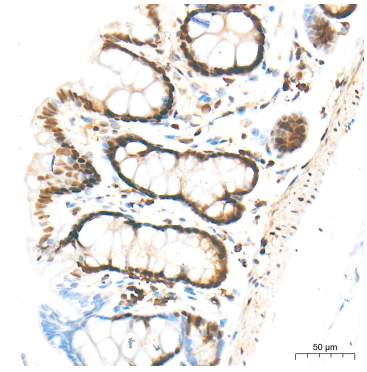
Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using Phospho-Cofilin-S3 Rabbit mAb (AP1607) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Cofilin-S3 Rabbit mAb (AP1607) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Cofilin-S3 Rabbit mAb (AP1607) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using Phospho-Cofilin-S3 Rabbit mAb (AP1607) at a dilution of 1:8000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.