

AP0893

Leader in Biomolecular Solutions for Life Science



Pan Phospho-Serine/Threonine Rabbit pAb

Catalog No.: AP0893

11 Publications

Basic Information

Observed MW

>10kDa

Calculated MW

Category

Polyclonal Antibody

Applications

WB,ELISA

Cross-Reactivity

Human,Mouse,Rat,Other (Wide Range Predicted)

Background

As a critical post-translational modification, phosphorylation plays important roles in regulating various biological processes. Serine/threonine phosphorylation is an important mechanism that is involved in the regulation of protein function. Protein phosphorylation is the most well-studied post translational modification (PTM), in which a phosphoryl group from adenosine triphosphate (ATP) is covalently attached to a serine (~86%), threonine (~12%), or tyrosine (~2%) by a kinase and removed by a phosphatase. Phosphorylation at other amino acids have also been reported. Phosphorylation can modify protein structure, function, and interactions. As such, phosphorylation plays a critical role in virtually all cellular processes in homeostasis and disease, including signal transduction, cell cycle, differentiation, proliferation, metabolism, motility, and death. Importantly, phosphorylation at different residues can cause different outcomes. For example, RAF1 is a kinase central to the MAPK pathway that is activated when it is phosphorylated at serine (S) or threonine (T) residues S259, S338, S340/341, T491, or S494. However, phosphorylation at S289/296/301 results in the inhibition of RAF1 kinase activity.

Recommended Dilutions

WB 1:500 - 1:1000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

Swiss Prot

Immunogen

A synthetic peptide corresponding to a sequence containing phosphorylated S & T.

Synonyms

Contact

 www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

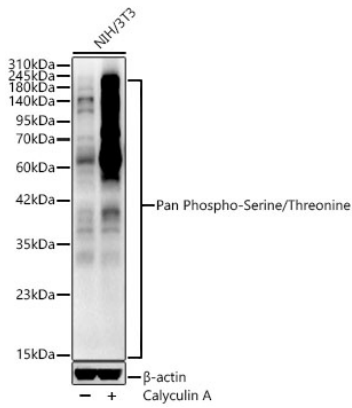
Affinity purification

Storage

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

Buffer: PBS with 0.09% Sodium azide, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of lysates from NIH/3T3 cells using Pan Phospho-Serine/Threonine Rabbit pAb (AP0893) at 1:400 dilution. NIH/3T3 cells were treated by Calyculin A (100 nM) at 37°C for 30 minutes after serum starvation overnight.

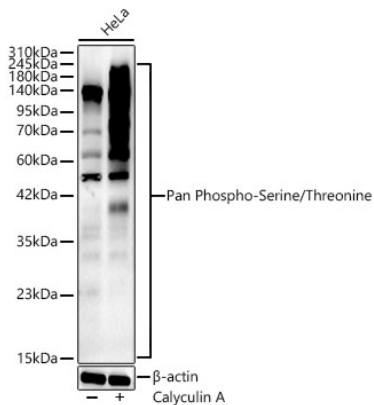
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

Exposure time: 45s.



Western blot analysis of lysates from HeLa cells using Pan Phospho-Serine/Threonine Rabbit pAb (AP0893) at 1:400 dilution. HeLa cells were treated by Calyculin A (100 nM) at 37°C for 30 minutes after serum starvation overnight.

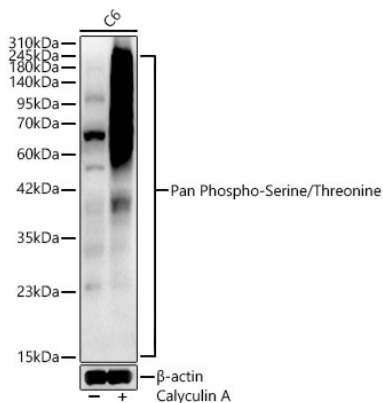
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

Exposure time: 45s.



Western blot analysis of lysates from C6 cells using Pan Phospho-Serine/Threonine Rabbit pAb (AP0893) at 1:400 dilution. C6 cells were treated by Calyculin A (100 nM) at 37°C for 30 minutes after serum starvation overnight.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

Exposure time: 45s.