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Pan Phospho-Serine/Threonine Rabbit pAb

Catalog No.: AP0893SP **15 Publications**

Basic Information

Observed MW
10 kDa or above

Calculated MW

Category
Primary antibody

Applications
WB,IP,IHC-P,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	1:1000 - 1:3000
IP	2 μg - 4 μg antibody for 200 μg - 400 μg extracts of whole cells
IHC-P	1:200 - 1:800
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 **Swiss Prot**

Immunogen
This information is considered to be commercially sensitive.

Synonyms

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

Contact

400-999-6126

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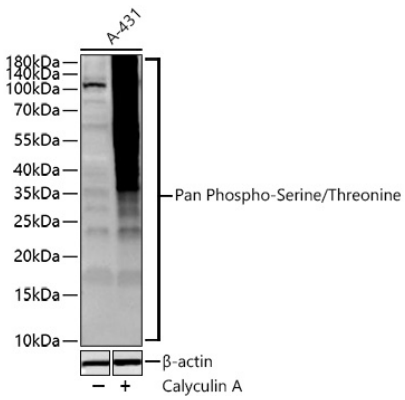
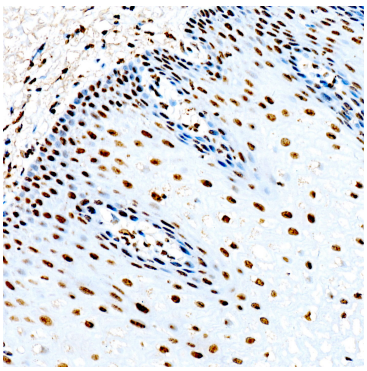
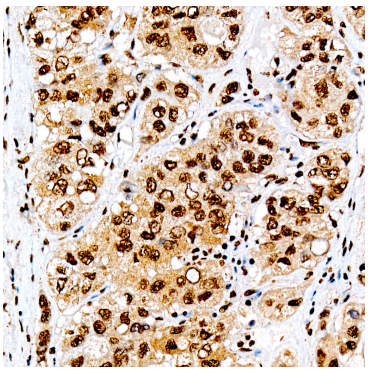
Validation Data



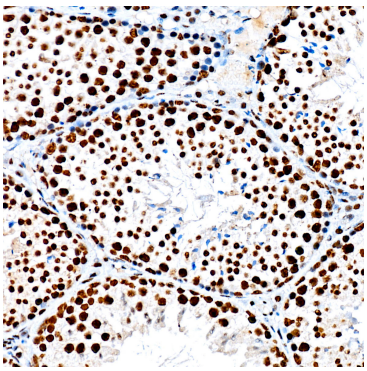
Western blot analysis of lysates from A-431 cells using Pan Phospho-Serine/Threonine Rabbit pAb (AP0893SP) at 1:1000 dilution incubated at room temperature for 1.5 hours. A-431 cells were treated with Calyculin A (100 nM) at 37°C for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (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: 45 s.



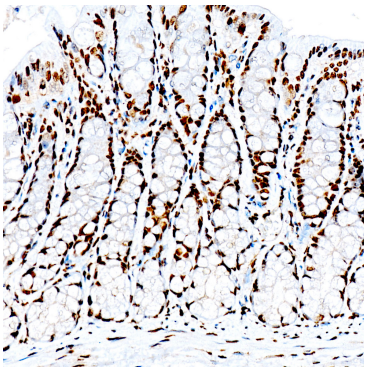
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using Pan Phospho-Serine/Threonine Rabbit pAb (AP0893SP) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using Pan Phospho-Serine/Threonine Rabbit pAb (AP0893SP) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using Pan Phospho-Serine/Threonine Rabbit pAb (AP0893SP) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using Pan Phospho-Serine/Threonine Rabbit pAb (AP0893SP) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.