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Phospho-Akt-T308 Rabbit mAb

Catalog No.: AP1533 Recombinant

Basic Information

Observed MW
60 kDa

Calculated MW
48kDa/55kDa/51kDa/54kDa

Category
Primary antibody

Applications
WB,IP,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC3333

Background

The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery. Mutations in this gene have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene.

Recommended Dilutions

WB	1:1000-1:5000
IP	0.5μg-4μg antibody for 200μg-600μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
207/208/10000

Swiss Prot
P31749/P31751/Q9Y243

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

Synonyms
AKT1/AKT2/AKT3; Phospho-Akt-T308

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

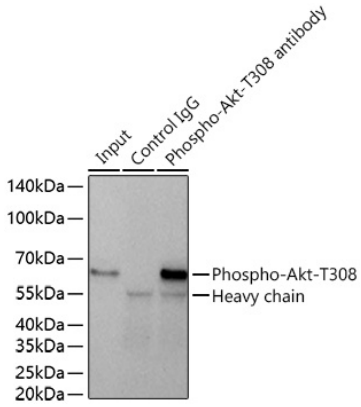
Source
Rabbit

Isotype
IgG

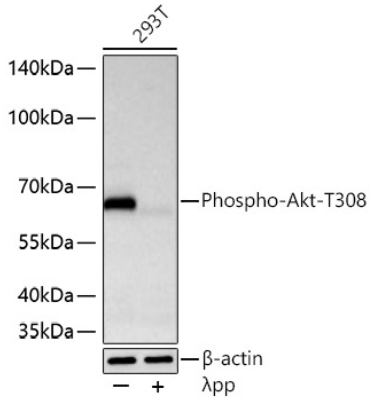
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

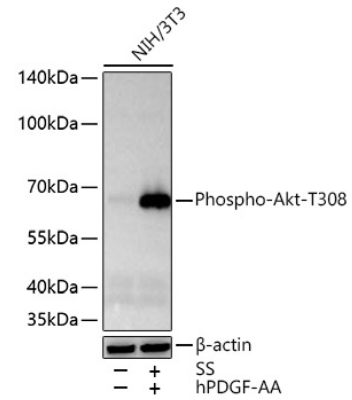
Validation Data



Immunoprecipitation of Phospho-Akt-T308 from 600 µg extracts of Jurkat cells was performed using 2 µg of Phospho-Akt-T308 Rabbit mAb (AP1533). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-Akt-T308 Rabbit mAb (AP1533) at a dilution of 1:500.

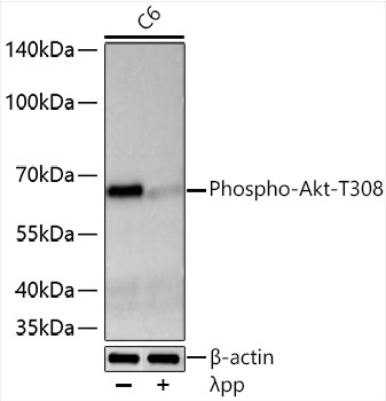


Western blot analysis of lysates from 293T cells using Phospho-Akt-T308 Rabbit mAb (AP1533) at 1:1000 dilution incubated overnight at 4℃. 293T cells were treated with λpp (2 U/µL) at 30℃ for 1 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.

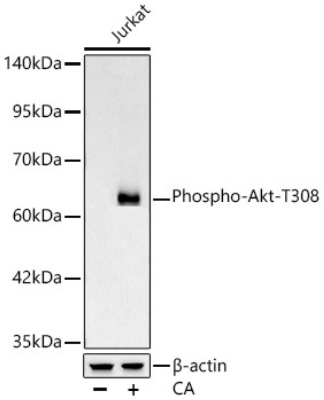


Western blot analysis of lysates from NIH/3T3 cells using Phospho-Akt-T308 Rabbit mAb (AP1533) at 1:1000 dilution incubated overnight at 4℃. NIH/3T3 cells were treated with hPDGF-AA (100 ng/mL) at 37℃ for 10 minutes after serum starvation for 24 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit 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



Western blot analysis of lysates from C6 cells using Phospho-Akt-T308 Rabbit mAb (AP1533) at 1:1000 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.



Western blot analysis of lysates from Jurkat cells using Phospho-Akt-T308 Rabbit mAb (AP1533) at 1:1000 dilution incubated overnight at 4℃. Jurkat cells were treated by Calyculin A (100 nM) 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: 30 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.