Phospho-AKT1-S473 Rabbit Monoclonal Antibody

CABP0637

Product Information

Size:

20uL, 50uL, 100uL, 200uL

Observed MW:

60KDa

Calculated MW:

48kDa/55kDa

Applications:

WB

Reactivity:

Human, Mouse, Rat

Antibody Information

Recommended dilutions:
WB 1:500 - 1:2000

Source:
Rabbit

Isotype:
IgG

Purification:
Affinity purification

Protein 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.

Immunogen information

Gene ID:
207

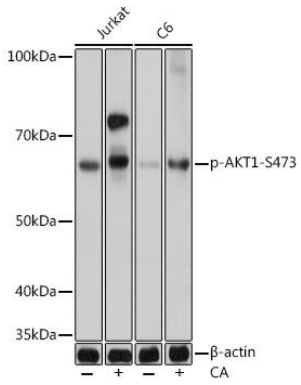
Uniprot
P31749

Synonyms:
AKT; CWS6; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA; AKT1

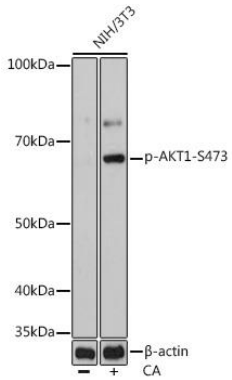
Immunogen:
A phospho specific peptide corresponding to residues surrounding S473 of human AKT1

Storage:
Store at -20℃. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Product Images



Western blot analysis of extracts of various cell lines, using Phospho-AKT1-S473 pAb (CABP0637) at 1:1000 dilution.Both Jurkat cells and C6 cells were treated by Calyculin A (100 nM) at 37'C for 30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 1s.



Western blot analysis of extracts of NIH/3T3 cells, using Phospho-AKT1-S473 pAb (CABP0637) at 1:1000 dilution.NIH/3T3 cells were treated by Calyculin A (100 nM) at 37'C for 30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 10s.

