

AP1068

Leader in Biomolecular Solutions for Life Science



Phospho-Akt-S473 Rabbit pAb

Catalog No.: AP1068

4 Publications

Basic Information

Observed MW

60kDa

Calculated MW

48kDa/55kDa/51kDa/54kDa

Category

Polyclonal Antibody

Applications

WB,IHC-P,ELISA

Cross-Reactivity

Human,Mouse,Rat

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. [provided by RefSeq, Jul 2011]

Recommended Dilutions

WB	1:500 - 1:2000
IHC-P	1:50 - 1:200

Immunogen Information

Gene ID

207/208/10000

Swiss Prot

P31749/P31751/Q9Y243

Immunogen

A synthetic phosphorylated peptide around S473 of human AKT1/AKT2/AKT3AKT1 (NP_005154.2).

Synonyms

AKT1/AKT2/AKT3; Phospho-Akt-S473

Contact



www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

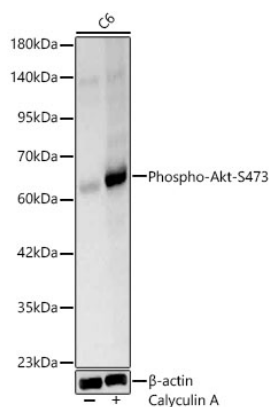
Affinity purification

Storage

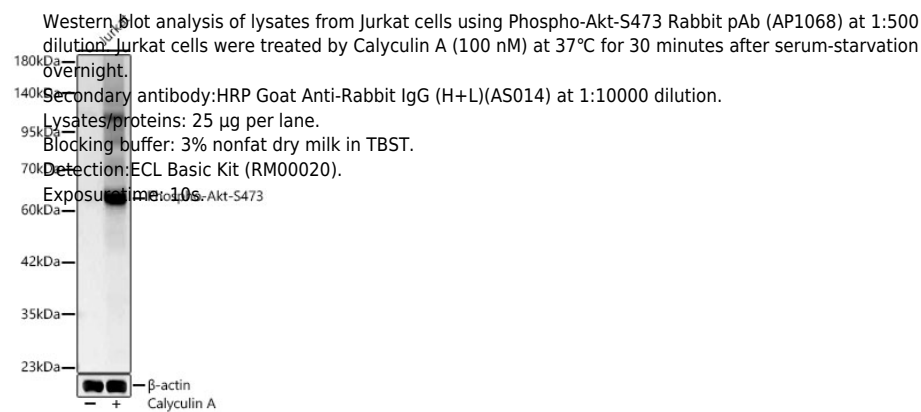
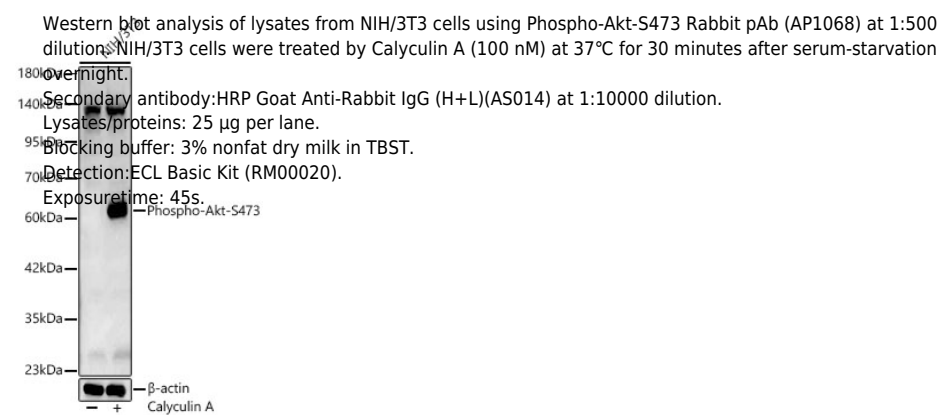
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

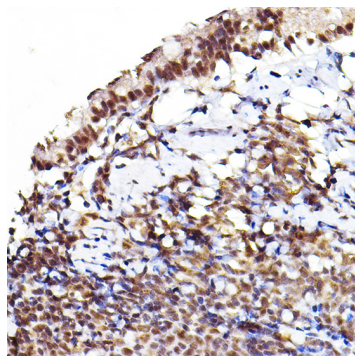
Validation Data



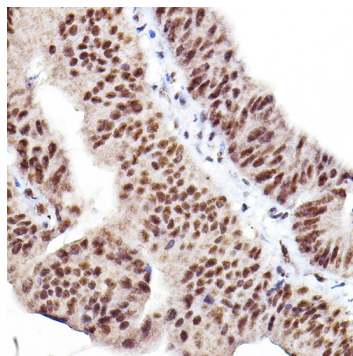
Western blot analysis of lysates from C6 cells using Phospho-Akt-S473 Rabbit pAb (AP1068) at 1:500 dilution. C6 cells were treated by Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



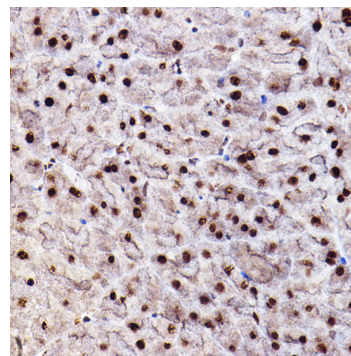
Validation Data



Immunohistochemistry analysis of Phospho-Akt-S473 in paraffin-embedded rat lung using Phospho-AKT1-S473+AKT2-S474+AKT3-S472 Rabbit pAb (AP1068) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Phospho-Akt-S473 in paraffin-embedded human colon carcinoma using Phospho-AKT1-S473+AKT2-S474+AKT3-S472 Rabbit pAb (AP1068) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Phospho-Akt-S473 in paraffin-embedded mouse pancreas using Phospho-AKT1-S473+AKT2-S474+AKT3-S472 Rabbit pAb (AP1068) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.