

AKT1 Polyclonal Antibody

Catalog number: 10176-2-AP

Size: 60 µg/150 µl

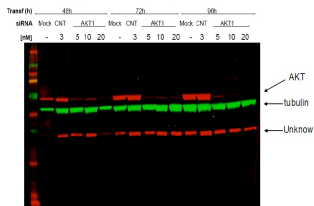
Source: Rabbit

Isotype: IgG

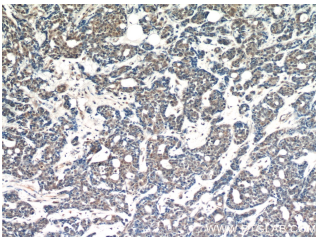
Synonyms:

AKT1; AKT, AKT1, PKB, PKB ALPHA, PRKBA, Protein kinase B, Proto oncogene c Akt, RAC, RAC ALPHA, RAC PK alpha

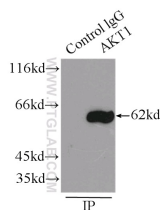
siRNA AKT1 80ug prot Proteintech 10176-2-ap 500-5000 08/02/2011



siRNA AKT1 result from Dr. Eva Martinez-Balibrea. Green:tubulin, Red:10176-2-AP, AKT1.



Immunohistochemical of paraffin-embedded human cervical cancer using 10176-2-AP (AKT antibody) at dilution of 1:50 (under 10x lens)



IP Result of anti-AKT (IP:10176-2-AP, 3ug; Detection:10176-2-AP 1:500) with HeLa cells lysate 2500ug.

Background

The serine-threonine protein kinase AKT1 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.

Applications

Tested applications:	ELISA, WB, IHC, IP, FC, IF
Cited applications:	WB
Species specificity:	Human, Mouse, Rat, Zebrafish; other species not tested.
Cited species:	Human, mouse, rat
Calculated AKT1 MW:	62 kDa
Observed AKT1 MW:	62 kDa
Positive WB detected in	HeLa cells, A549, A549 cells, HepG2 cells, human liver tissue, mouse testis tissue, siRNA cells
Positive IP detected in	HeLa cells
Positive IHC detected in	Human cervical cancer tissue, human breast cancer tissue, human ovary tumor tissue
Positive IF detected in	HeLa cells
Positive FC detected in	HeLa cells
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:50-1:500 FC: N/A

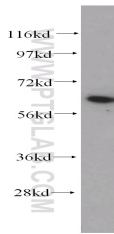
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

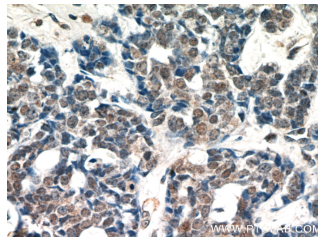
Immunogen:	Ag0213
GenBank accession number:	BC000479
Gene ID (NCBI):	207
Full name:	V-akt murine thymoma viral oncogene homolog 1

Product information

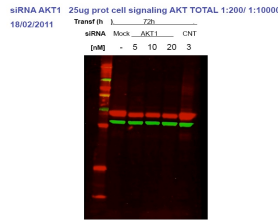
Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



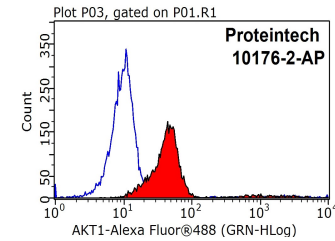
HeLa cells were subjected to SDS PAGE followed by western blot with 10176-2-AP(AKT antibody) at dilution of 1:500



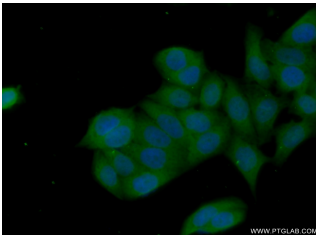
Immunohistochemical of paraffin-embedded human cervical cancer using 10176-2-AP(AKT antibody) at dilution of 1:50 (under 40x lens)



Control:siRNA AKT1 result with Pan-AKT antibody.From Dr.Eva Martinez-Balibrea.



1X10⁶ HeLa cells were stained with 0.2ug AKT antibody (10176-2-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 10176-2-AP(AKT Antibody) at dilution of 1:50 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)