

For Research Use Only

# Phospho-AKT (Ser473) Monoclonal antibody, PBS Only (Capture)

Catalog Number: 66444-1-PBS

Featured Product



## Basic Information

Catalog Number:

66444-1-PBS

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

GenBank Accession Number:

NM\_005163

GeneID (NCBI):

207

UNIPROT ID:

P31749

Full Name:

v-akt murine thymoma viral  
oncogene homolog 1

Observed MW:

60-62 kDa

Purification Method:

Protein A purification

CloneNo.:

1C10B8

## Applications

Tested Applications:

WB, IHC, FC (Intra), Cytometric bead array, Indirect  
ELISA

Species Specificity:

human, mouse, rat

## Background Information

The serine-threonine protein kinase AKT1 is catalytically inactive in serum-starved primary and immortalized fibroblasts. 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. This antibody detects all the members of AKT with phospho-modification at Ser473.

## Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

For technical support and original validation data for this product please contact:

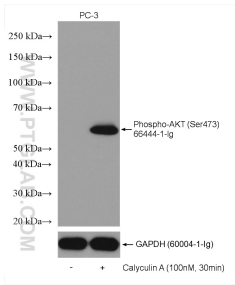
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

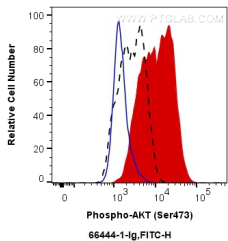
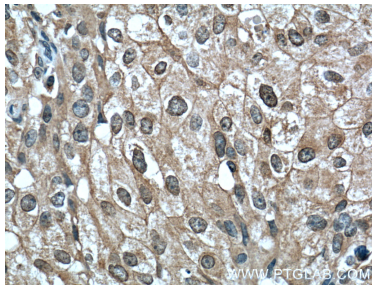
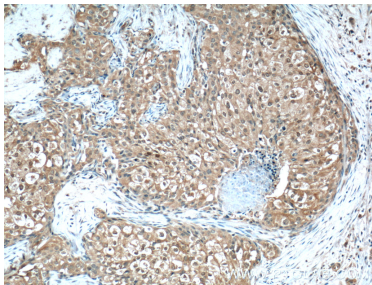
W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

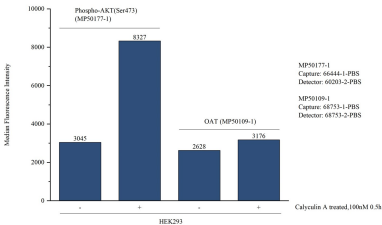
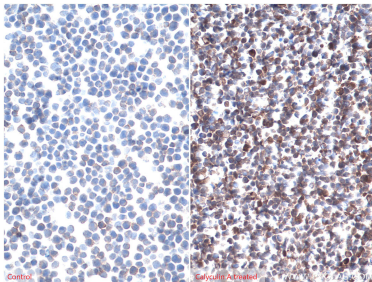
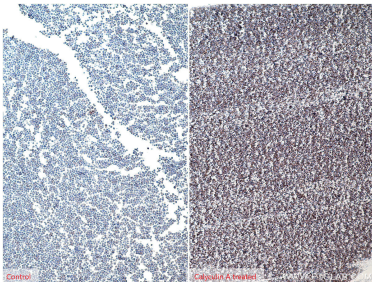
Selected Validation Data



Non-treated PC-3 and Calyculin A treated PC-3 cells were subjected to SDS PAGE followed by western blot with 66444-1-Ig (Phospho-AKT (Ser473) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control. This data was developed using the same antibody clone with 66444-1-PBS in a different storage buffer formulation.



1X10<sup>6</sup> PC-3 cells untreated (dashed line) or treated with Calyculin A (red) were intracellularly stained with 0.5 ug Anti-Human Phospho-AKT (Ser473) (66444-1-Ig, Clone:1C10B8) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000, or 0.5 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH. This data was developed using the same antibody clone with 66444-1-PBS in a different storage buffer



Cytometric bead array in cell lysate using MP50177-1, Phospho-AKT(Ser473) Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 66444-1-PBS. Detection antibody: 60203-2-PBS. Cell lysate: Non-treated HEK293 and Calyculin A treated HEK293(30  $\mu$ g/well). Non-related target OAT Monoclonal Matched Antibody Pair (MP50109-1P) was served as control.

Immunohistochemical analysis of paraffin-embedded untreated (left) or Calyculin A treated (right) Jurkat cells slide using 66444-1-Ig (Phospho-AKT (Ser473) antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66444-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffin-embedded untreated (left) or Calyculin A treated (right) Jurkat cells slide using 66444-1-Ig (Phospho-AKT (Ser473) antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66444-1-PBS in a different storage buffer formulation.