

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:

100ug, Concentration: 1000 ug/ml by 207

Nanodrop;

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

Product Information

66444-1-PBS targets Phospho-AKT (Ser473) as part of a matched antibody pair:

MP50177-1: 66444-1-PBS capture and 60203-2-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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.

Storage Buffer:

PBS Only

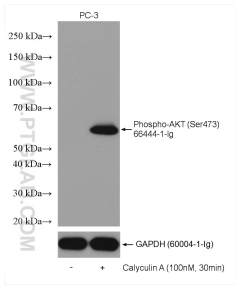
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

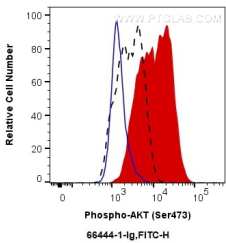
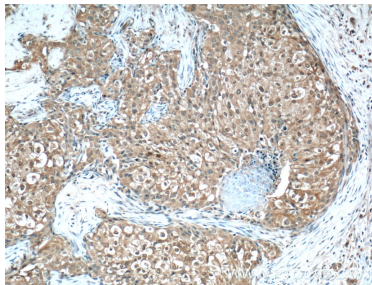
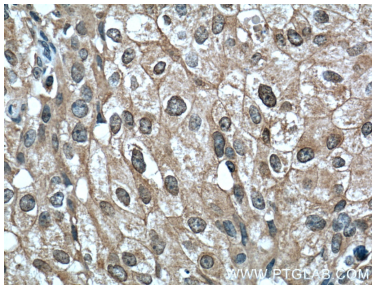
E: proteintech@ptglab.com
W: ptglab.com

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

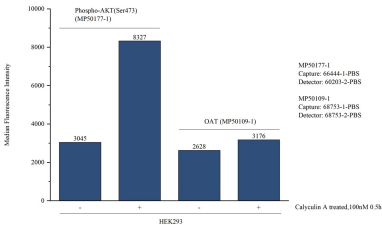
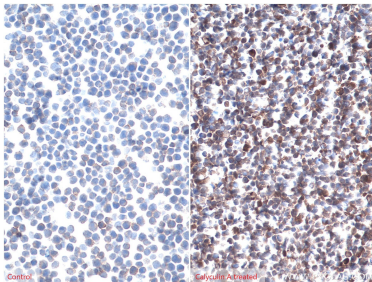
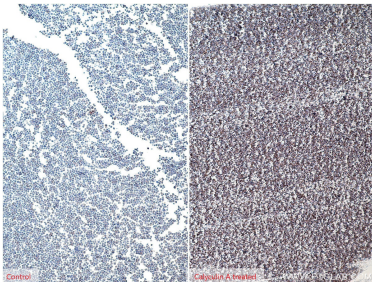
Selected Validation Data



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.



1X10⁶ 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 CorLite®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



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(30µg/well). Non-related target OAT Monoclonal Matched Antibody Pair (MP50109-1P) was served as control.