

# AKT Monoclonal antibody

Catalog Number: 60203-2-Ig

Featured Product

338 Publications

## Basic Information

## Catalog Number:

60203-2-Ig

## Size:

2000 µg/ml

## Source:

Mouse

## Isotype:

IgG1

## Immunogen Catalog Number:

AG16695

## GenBank Accession Number:

BC000479

## GeneID (NCBI):

207

## UNIPROT ID:

P31749

## Full Name:

v-akt murine thymoma viral  
oncogene homolog 1

## Calculated MW:

56 kDa

## Observed MW:

56-62 kDa

## Purification Method:

Protein A purification

## CloneNo.:

2C5D1

## Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 µg for 1.0-3.0 mg of total  
protein lysate

IHC 1:100-1:400

IF 1:10-1:100

## Applications

## Tested Applications:

FC, IF/ICC, IHC, IP, WB, ELISA

## Cited Applications:

CoIP, IF, IHC, IP, WB

## Species Specificity:

human, mouse, rat

## Cited Species:

human, chicken, rat, sheep, mouse, hamster, bovine

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

## Positive Controls:

**WB**: A549 cells, rat liver tissue, mouse brain tissue,  
HEK-293 cells, NIH/3T3 cells, RAW 264.7 cells,  
ROS1728 cells, LNCaP cells, Hela cells, Jurkat cells,  
HSC-T6 cells, PC-12 cells

**IP**: mouse brain tissue,

**IHC**: human breast cancer tissue, human cervical  
cancer tissue

**IF**: HeLa cells, MCF-7 cells

## 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/without phospho- modification.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yi Yu	34585393	J Periodontol	WB
Wenbin Pei	34650433	Front Pharmacol	WB
YanHua Fan	36174847	Fitoterapia	WB

## Storage

## Storage:

Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

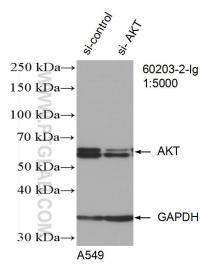
For technical support and original validation data for this product please contact:

T: 4006900926

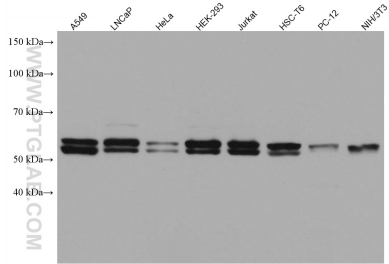
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

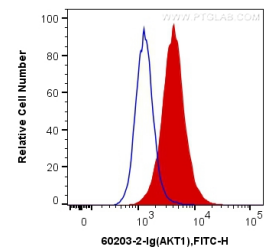
Selected Validation Data



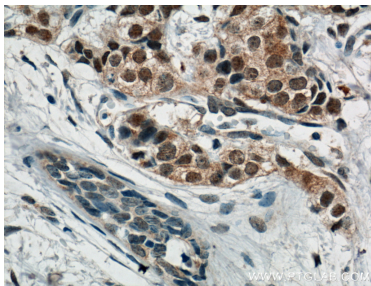
WB result of AKT antibody (60203-2-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AKT transfected A549 cells.



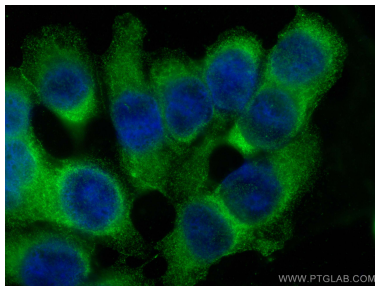
Various lysates were subjected to SDS PAGE followed by western blot with 60203-2-Ig (AKT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



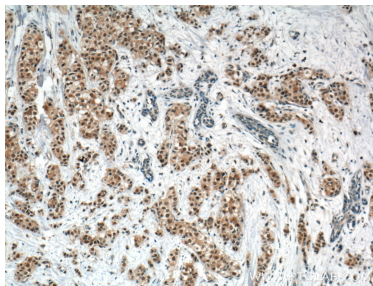
1X10<sup>6</sup> Jurkat cells were intracellularly stained with 0.2 ug Anti-Human AKT (60203-2-Ig, Clone:2C5D1) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Mouse IgG1 Isotype Control (66360-1-Ig, Clone: T1F8D3F10) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



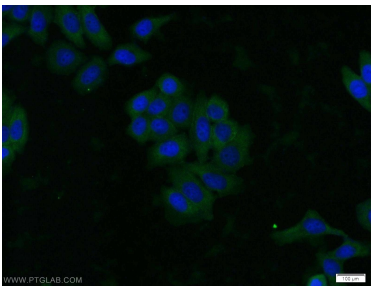
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60203-2-Ig (AKT Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



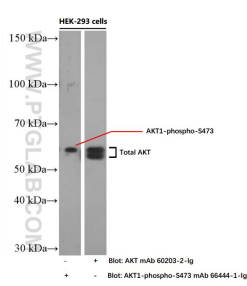
Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using AKT antibody (60203-2-Ig, Clone: 2C5D1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



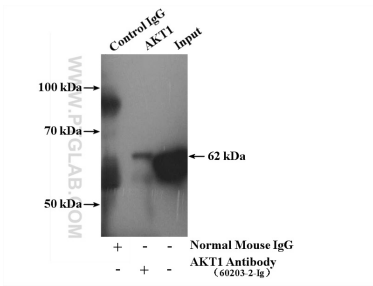
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60203-2-Ig (AKT Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HeLa cells using 60203-2-Ig (AKT antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG (H+L).



HEK-293 cells were subjected to SDS PAGE followed by western blot with 60203-2-Ig (AKT Antibody) and 66444-1-Ig(AKT1-phospho-S473 Antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



IP result of anti-AKT (IP:60203-2-Ig, 5ug; Detection:60203-2-Ig 1:1000) with mouse brain tissue lysate 4000ug.