

For Research Use Only

# AKT Monoclonal antibody

Catalog Number: 60203-2-Ig

Featured Product

329 Publications



## Basic Information

<b>Catalog Number:</b> 60203-2-Ig	<b>GenBank Accession Number:</b> BC000479	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 207	<b>CloneNo.:</b> 2C5D1
<b>Source:</b> Mouse	<b>Full Name:</b> v-akt murine thymoma viral oncogene homolog 1	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:100-1:400 IF 1:10-1:100
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 56 kDa	
<b>Immunogen Catalog Number:</b> AG16695	<b>Observed MW:</b> 56-62 kDa	

## Applications

**Tested Applications:**  
FC, IF, 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

\*\*\* 20ul sizes contain 0.1% BSA

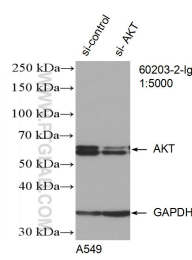
For technical support and original validation data for this product please contact:

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

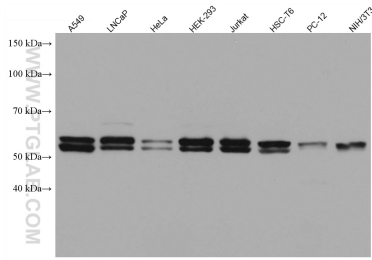
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

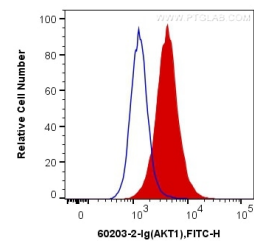
Selected Validation Data



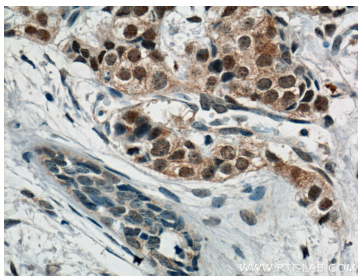
WB result of AKT antibody (60203-2-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AKT transfected A549 cells.



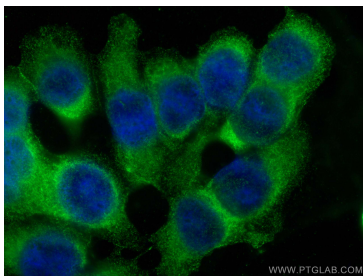
Various lysates were subjected to SDS PAGE followed by western blot with 60203-2-Ig (AKT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



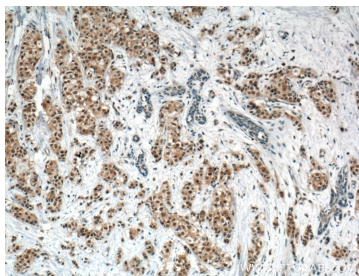
1X10^6 Jurkat cells were intracellularly stained with 0.2 ug Anti-Human AKT (60203-2-Ig, Clone:2C5D1) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Mouse IgG1 Isotype Control (66360-1-Ig, Clone: T1F8D3F10) (blue). Cells were fixed with 4% PFA and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



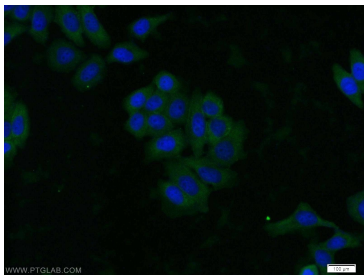
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60203-2-Ig (AKT Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



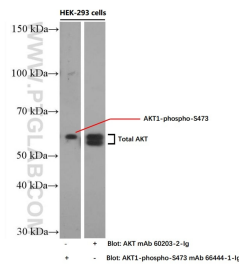
Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using AKT antibody (60203-2-Ig, Clone: 2C5D1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



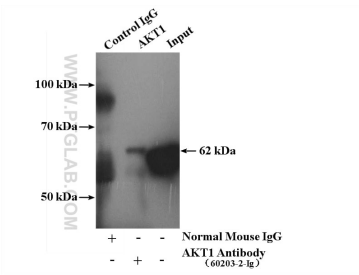
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60203-2-Ig (AKT Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.