

For Research Use Only

# AKT1/3 Monoclonal antibody

Catalog Number: 60203-1-Ig

Featured Product

51 Publications



## Basic Information

Catalog Number:

60203-1-Ig

Size:

1000  $\mu$ g/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 G purification

CloneNo.:

3G5E11

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0  $\mu$ g for 1.0-3.0 mg of total  
protein lysate

IHC 1:250-1:1000

IF 1:20-1:200

## Applications

Tested Applications:

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

Cited Applications:

IF, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse, huamn

**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 : HeLa cells, MCF-7 cells, rat liver tissue

IP : mouse brain tissue,

IHC : human breast cancer tissue, human cervical  
cancer tissue

IF : MCF-7 cells,

## Background Information

The serine-threonine protein kinase AKT 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 AKT, which then phosphorylates and inactivates components of the apoptotic machinery.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaojuan Peng	34753028	Phytomedicine	WB
Xinbo Wu	32914567	J Cell Mol Med	WB
Xi Chen	33174023	Mol Med Rep	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:

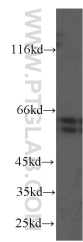
T: 4006900926

E: Proteintech-CN@ptglab.com

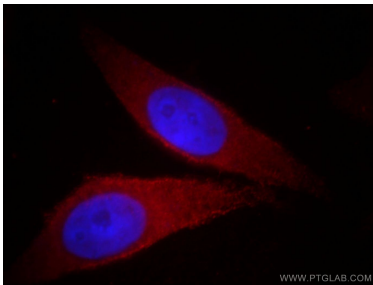
W: ptgcn.com

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

Selected Validation Data

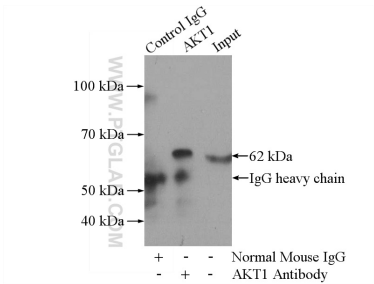


WB result of AKT1/3 antibody (60203-1-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AKT1/3 transfected MCF-7 cells.

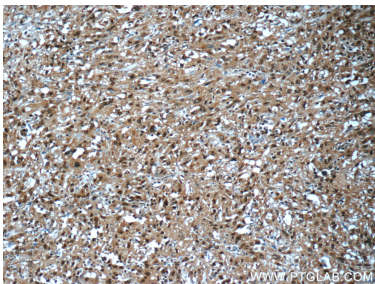


Immunofluorescent analysis of MCF-7 cells, using AKT1 antibody 60203-1-Ig at 1:50 dilution and Rhodamine-labeled goat anti-mouse IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).

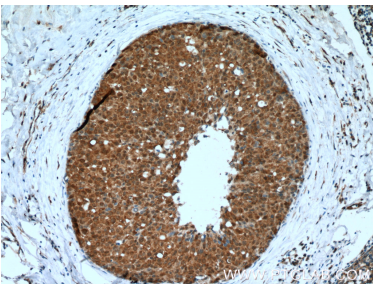
HeLa cells were subjected to SDS PAGE followed by western blot with 60203-1-Ig (AKT1/3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



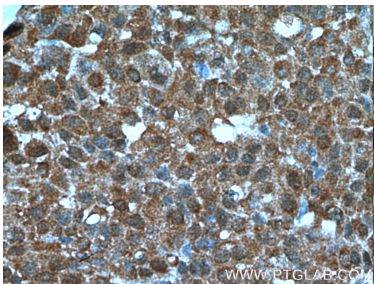
IP result of anti-AKT1/3 (IP:60203-1-Ig, 5ug; Detection:60203-1-Ig 1:600) with mouse brain tissue lysate 3440ug.



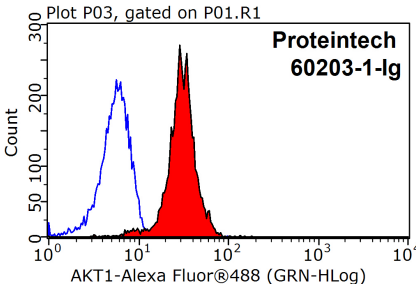
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 60203-1-Ig (AKT1/3 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60203-1-Ig (AKT1/3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60203-1-Ig (AKT1/3 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> MCF-7 cells were stained with 0.2ug AKT1/3 antibody (60203-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1500.