

For Research Use Only

AKT Monoclonal antibody

Catalog Number: 60203-2-Ig

Featured Product

625 Publications



Basic Information

Catalog Number:

60203-2-Ig

Concentration:

2000 ug/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.:

2C5D1

Recommended Dilutions:

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/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, rabbit, chicken, bovine, hamster,
sheep, goat, duck

**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/ICC : 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

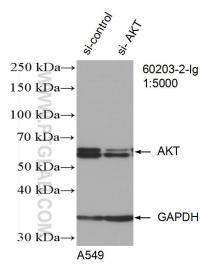
T: 4006900926

E: Proteintech-CN@ptglab.com

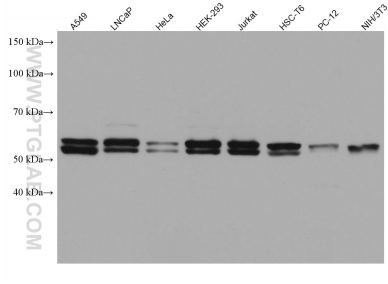
W: ptgcn.com

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

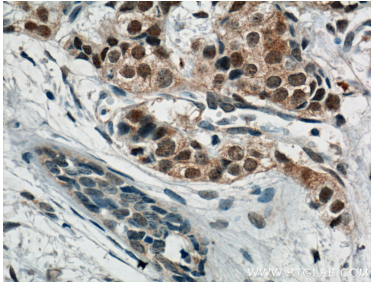
Selected Validation Data



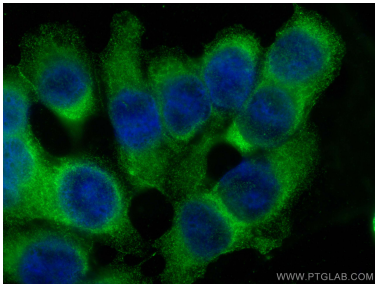
WB result of AKT antibody (60203-2-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AKT transfected A549 cells.



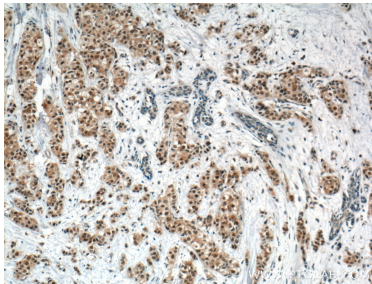
Various lysates were subjected to SDS PAGE followed by western blot with 60203-2-Ig (AKT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



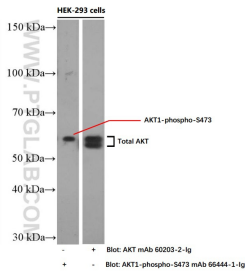
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60203-2-Ig (AKT Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



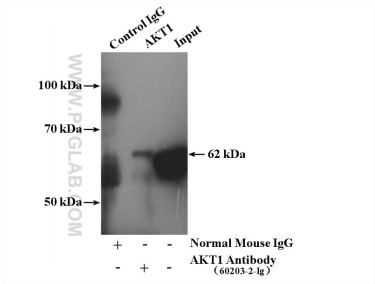
Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using AKT antibody (60203-2-Ig, Clone: 2C5D1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



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).



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.