

For Research Use Only

# AKT1/3 Monoclonal antibody

Catalog Number: 60203-1-Ig

Featured Product

60 Publications



## Basic Information

**Catalog Number:**

60203-1-Ig

**Size:**

150ul, Concentration: 1000 µg/ml by Bradford method using BSA as the standard;

**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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:250-1:1000

IF/ICC 1:20-1:200

## Applications

**Tested Applications:**

WB, IP, IF, IHC, ELISA

**Cited Applications:**

WB, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat, 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/ICC : 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, pH7.3

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)

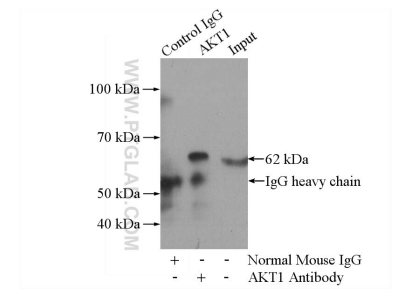
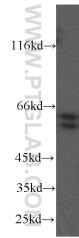
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data

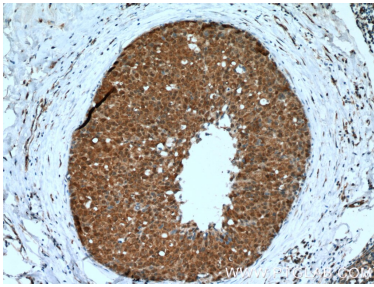


WB result of AKT1/3 antibody (60203-1-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AKT1/3 transfected MCF-7 cells.

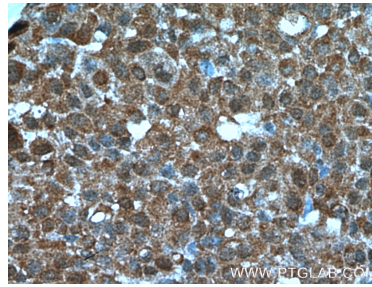


HeLa cells were subjected to SDS PAGE followed by western blot with 60203-1-Ig (AKT1/3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

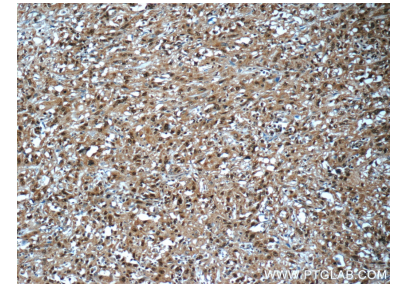
IP result of anti-AKT1/3 (IP:60203-1-Ig, 5ug; Detection:60203-1-Ig 1:600) with mouse brain tissue lysate 3440ug.



Immunohistochemical analysis of paraffin-embedded human 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).



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).