

AKT1/3 Monoclonal antibody

Catalog Number: 60203-1-Ig

Featured Product

51 Publications

Basic Information

Catalog Number: 60203-1-Ig	GenBank Accession Number: BC000479	Purification Method: Protein G purification
Size: 150ul, Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 207	CloneNo.: 3G5E11
Source: Mouse	Full Name: v-akt murine thymoma viral oncogene homolog 1	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 1:20-1:200
Isotype: IgG1	Calculated MW: 56 kDa	
Immunogen Catalog Number: AG16695	Observed MW: 56-62 kDa	

Applications

Tested Applications: FC, IF, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: IF, WB	WB: HeLa cells, MCF-7 cells, rat liver tissue
Species Specificity: human, mouse, rat	IP: mouse brain tissue,
Cited Species: human, rat, mouse, huamn	IHC: human breast cancer tissue, human cervical cancer tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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

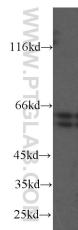
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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

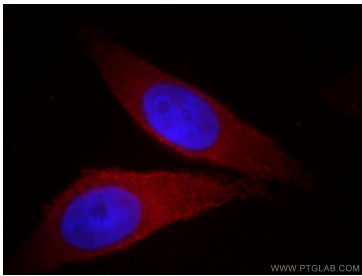
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

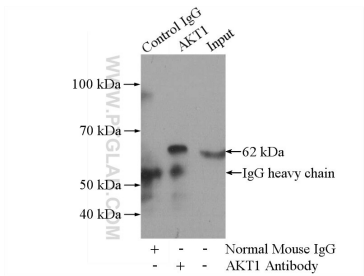


HeLa cells were subjected to SDS PAGE followed by western blot with 60203-1-Ig (AKT1/3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

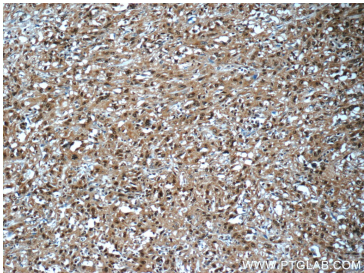
WB result of AKT1/3 antibody (60203-1-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AKT1/3 transfected MCF-7 cells.



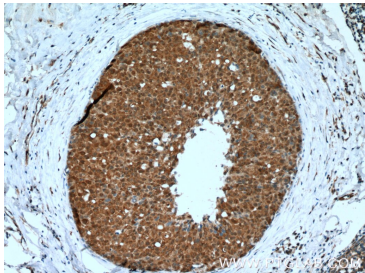
Immunofluorescent analysis of MCF-7 cells, using AKT1 antibody 60203-1-Ig at 1:50 dilution and Rhodamine-labeled goat anti-mouse IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



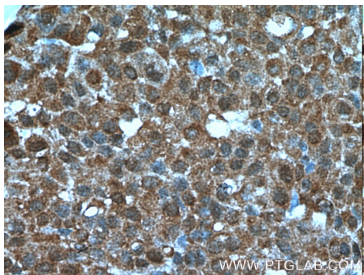
IP Result of anti-AKT1/3 (IP:60203-1-Ig, 5ug; Detection:60203-1-Ig 1:600) with mouse brain tissue lysate 3440ug.



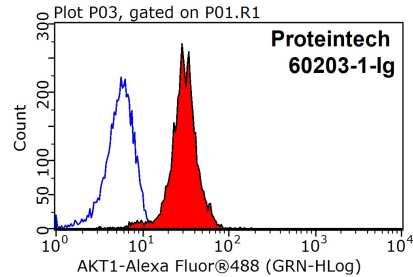
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 60203-1-Ig (AKT1/3 antibody) at dilution of 1:50 (under 10x lens).



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).



1X10⁶ 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.