## For Research Use Only

## AKT Polyclonal antibody Catalog Number: 10176-2-AP Featured Produce

Featured Product



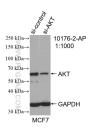


	Concentration: 500 ug/ml Source:	GenelD (NCB 207	I):	Antigen affinity Recommended	•		
	•	207		W/P. 1.2000 1.1			
	Source:				WB: 1:2000-1:12000		
				IP: 0.5-4.0 ug for 1.0-3.0 mg of to			
	Rabbit	P31749			protein lysate IHC: 1:50-1:500		
	Isotype: IgG	Full Name:	thymoma viral	IF-P: 1:200-1:800 IF-Fro: 1:50-1:500			
	Immunogen Catalog Number: AG0213	oncogene ho	•				
		Calculated M 56 kDa	Calculated MW: 56 kDa				
		Observed MV 56-62 kDa	V:				
Applications	Tested Applications: Positive Controls:						
	WB, IHC, IF-P, IF-Fro, IP, ELISA	WB: A549	WB : A549 cells, HeLa cells, MCF-7 cells, HepG2 cells				
	Cited Applications: WB, IHC, IF, IP, CoIP, ELISA		NIH/3T3 cells, C6 cells, C2C12 cells, mouse brain tissue, rat brain tissue				
	Species Specificity:	IP : HeLa co	IP : HeLa cells,				
		human, mouse, rat			IHC : human ovary tumor tissue, human breast cance		
	Cited Species: human, mouse, rat, monkey, chicken, zebrafish, sheep,		tissue	tissue			
	goat, fish, zebra finches	IF-P: mous	IF-P : mouse brain tissue,				
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0						
Background Informatior	The serine-threonine protein kinase AKT1 is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. 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.						
Notable Publications	Author	Pubmed ID	Journal		Application		
	Yangmeng Zhao	36178125	Redox Rep		WB		
	Xiao-Feng Zhu	36180975	Phytother Res		WB		
	Tong Li	33152931	Biomed Pharmaco	ther	WB		
	Storage						
otorage	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						

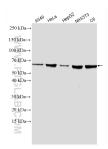
For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

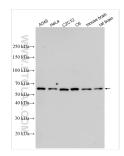
## Selected Validation Data



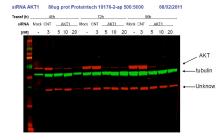
WB result of AKT antibody (10176-2-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AKT transfected MCF-7 cells.



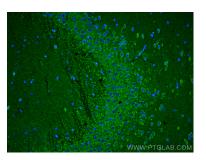
Various lysates were subjected to SDS PAGE followed by western blot with 10176-2-AP (AKT antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 10176-2-AP (AKT antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



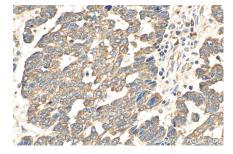
siRNA AKT1 result from Dr. Eva Martinez-Balibrea. Green:tubulin, Red:10176-2-AP, AKT1.



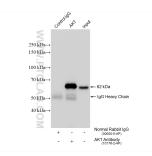
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using AKT antibody (10176-2-AP) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



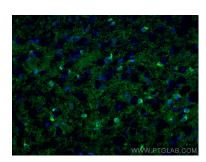
Immunohistochemical analysis of paraffinembedded human ovary tumor tissue slide using 10176-2-AP (AKT antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human ovary tumor tissue slide using 10176-2-AP (AKT antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-AKT (IP:10176-2-AP, 4ug; Detection:10176-2-AP 1:15000) with HeLa cells lysate 1085 ug.



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using AKT antibody (10176-2-AP) at dilution of 1:200 and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).