For Research Use Only

## AKT1 Recombinant antibody

Catalog Number:80816-1-RR

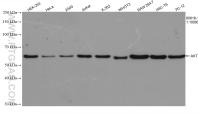


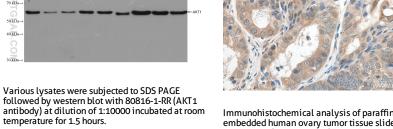
Basic Information	Catalog Number: GenBank Accession I 80816-1-RR BC 000479		mber:	Purification Method: Protein A purification
	Size: GeneID (NCBI):   1000 μg/ml 207			CloneNo.:
				509
	Source: Rabbit	UNIPROT ID: P31749		Recommended Dilutions: WB 1:5000-1:50000
	Isotype: IgG Immunogen Catalog Number: AG0213	Full Name: v-akt murine thymoma viral oncogene homolog 1 Calculated MW: 56 kDa		IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:500-1:2000 FC 0.40 ug per 10 <sup>6</sup> cells in a 100 µl suspension
		Observed MW: 56-62 kDa		
Applications	Tested Applications:		Positive Controls:	
	FC, IHC, IP, WB, ELISA		WB: HEK-293	3 cells, HeLa cells, A549 cells, Jurkat cells,
	Species Specificity: Human, Mouse, Rat		K-562 cells, NIH/3T3 cells, RAW 264.7 cells, HSC-T6 cells, PC-12 cells	
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		IP : HEK-293 cells,	
			IHC : human ovary tumor tissue,	
			FC : Jurkat cells,	
Background Information	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.			
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	50% glycerol pH 7.3.		

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

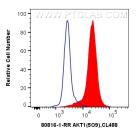
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## **Selected Validation Data**

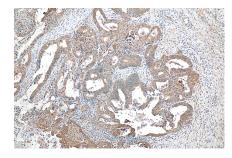




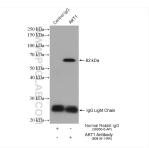
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 80816-1-RR (AKT antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 Jurkat cells were intracellularly stained with 0.4 ug Anti-Human AKT 1 (80816-1-RR, Clone:SO9) and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit 1gG(H+L) at dilution 1:1000 (red), or 0.4 ug control antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 80816-1-RR (AKT antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-AKT1 (IP:80816-1-RR, 4ug; Detection:80816-1-RR 1:2000) with HEK-293 cells lysate 1280 ug.