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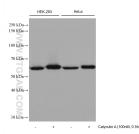
## AKT1-Specific Recombinant antibody

Catalog Number:80457-1-RR 4 Publications

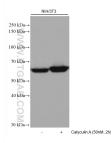


Basic Information	Catalog Number: 80457-1-RR	GenBank Accession Number: NM_005163	Purification Method: Protein A purification	
	Size:	GenelD (NCBI):	CloneNo.:	
	100ul , Concentration: 1000 ug/ml by		415	
	Nanodrop;	UNIPROT ID:	Recommended Dilutions:	
	Source: Rabbit	P31749	WB 1:5000-1:50000	
		Full Name: v-akt murine thymoma viral	IHC 1:50-1:500 IF/ICC 1:200-1:800	
	Isotype: IgG	oncogene homolog 1		
		Observed MW: 56-62 kDa		
Applications	Tested Applications:	Positiv	Positive Controls: WB : HEK-293 cells, HEK-293T cells, NIH/3T3 cells, Calyculin A treated HepG2 cells, Calyculin A treated	
	WB, IHC, IF/ICC, ELISA			
	Cited Applications: WB	HEK-293 cells, HeLa cells, Calycu		
	Species Specificity:		cells, Calyculin A treated NIH/3T3 cells	
	human, mouse	IHC : h	numan breast cancer tissue,	
	Cited Species: human, mouse	IF/ICC	: HeLa cells,	
	retrieval may be performed w			
Background Information	buffer pH 6.0 AKT is a serine/threonine kinase and Phosphatidylinositol-3 kinase (PI3K) to PIP3-rich areas of the plasma mem AKT. AKT's activating kinase, phosphor microdomains. PDK1 phosphorylates and leading to a second phosphorylate further potentiates kinase activity. Ac	is the key regulator of AKT acti brane results in a conformatio binositide-dependent protein k AKT on threonine 308 (Thr308) tion of AKT at serine 473 (Ser47 ctive AKT will phosphorylate v	ivation. The recruitment of inactive AKT prote nal change that exposes the activation loop o tinase (PDK1), is also recruited to PIP3 of the exposed activation loop, activating AK 73) by a kinase presumed to be mTORC2 that arious downstream protein targets that contro	
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Notable Publications	buffer pH 6.0AKT is a serine/threonine kinase and Phosphatidylinositol-3 kinase (PI3K) to PIP3-rich areas of the plasma mem AKT. AKT's activating kinase, phosphorylates and leading to a second phosphorylate further potentiates kinase activity. Ac cell growth and translational control a specifically recognizes AKT1.AuthorPub Nannan ShaLiyan Sui396	is the key regulator of AKT acti brane results in a conformatio binositide-dependent protein k AKT on threonine 308 (Thr308) tion of AKT at serine 473 (Ser47; tive AKT will phosphorylate v and act to suppress apoptosis. ( med ID Journal 65175 Oncogene 16195 Nat Commun 92386 Biol Pharm Bu	ivation. The recruitment of inactive AKT prote nal change that exposes the activation loop o cinase (PDK1), is also recruited to PIP3 of the exposed activation loop, activating Ak 73) by a kinase presumed to be mTORC2 that arious downstream protein targets that contro (PMID: 31594388, PMID: 30808672). 80457-1-F Application WB WB	
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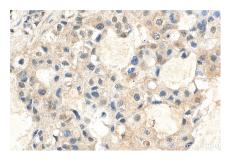
## Selected Validation Data



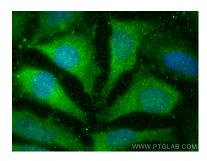
Non-treated and Calyculin A treated cells were subjected to SDS PAGE followed by western blot with 80457-1-RR (AKT 1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Non-treated and Calyculin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80457-1-RR (AKT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 80457-1-RR (AKT1 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 Ethanol) fixed HeLa cells using AKT1 (C-terminal) antibody (80457-1-RR, Clone: 415) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).