For Research Use Only

Phospho-AKT (Ser473) Polyclonal antibody



Catalog Number:28731-1-AP

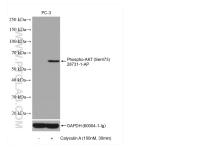
88 Publications

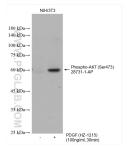
Basic Information	Catalog Number: 28731-1-AP	GenBank Accession Number:		
	Size:	NM_005163 GeneID (NCBI):	Antigen affinity purification Recommended Dilutions:	
	430 μg/ml	207	WB 1:1000-1:5000	
	Source: Rabbit	UNIPROT ID: P31749		
	Isotype: IgG	Full Name: v-akt murine thymoma viral oncogene homolog 1		
		Observed MW: 58 kDa		
Applications	Tested Applications:	Posit	Positive Controls:	
	WB, ELISA Cited Applications: WB, IF, IHC	ited Applications: NIH/3T3 cells		
	Species Specificity: Human, mouse, rat			
	Cited Species: human, rat, mouse, pig			
Background Information	Phosphorylation on Thr-308, Ser-473 and Tyr-474 is required for full activity. Activated TNK2 phosphorylates it on Tyr-176 resulting in its binding to the anionic plasma membrane phospholipid PA (PubMed:20333297). This phosphorylated form localizes to the cell membrane, where it is targeted by PDPK1 and PDPK2 for further phosphorylations on Thr-308 and Ser-473 leading to its activation (PubMed:9512493). Ser-473 phosphorylation by mTORC 2 favors Thr-308 phosphorylation by PDPK1 (PubMed:21464307, PubMed:8978681). AKT1 Thr-308 and Ser-473 is Phosphorylated by IKBKE and TBK1 (PubMed:15718470, PubMed:18456494, PubMed:20481595, PubMed:8978681). Ser-473 phosphorylation is enhanced by interaction with AGAP2 isoform 2 (PIKE-A) (PubMed:17013611). Ser-473 phosphorylation is enhanced in focal cortical dysplasias with Taylor-type balloon cel (PubMed:17013611). Ser-473 phosphorylation is enhanced by signaling through activated FLT3 (By similarity). Ser 473 is dephosphorylated by PHLPP (PubMed:28147277) and Ser-473 by P2A phosphatase (PubMed:21329884).			
	(PubMed:14761976). Ser-473 (PubMed:17013611). Ser-473	phosphorylation is enhanced in focal phosphorylation is enhanced by signa	cortical dysplasias with Taylor-type balloon co lling through activated FLT3 (By similarity). Se	
Notable Publications	(PubMed:14761976). Ser-473 (PubMed:17013611). Ser-473	phosphorylation is enhanced in focal phosphorylation is enhanced by signa	cortical dysplasias with Taylor-type balloon ce lling through activated FLT3 (By similarity). Se	
Notable Publications	(PubMed:14761976). Ser-473 (PubMed:17013611). Ser-473 473 is dephosphorylated by	5 phosphorylation is enhanced in focal 5 phosphorylation is enhanced by signa PHLPP (PubMed:28147277) and Ser-47:	cortical dysplasias with Taylor-type balloon ce lling through activated FLT3 (By similarity). Se 3 by PP2A phosphatase (PubMed:21329884). Application	
Notable Publications	(PubMed:14761976). Ser-473 (PubMed:17013611). Ser-473 473 is dephosphorylated by Author	5 phosphorylation is enhanced in focal 5 phosphorylation is enhanced by signa PHLPP (PubMed:28147277) and Ser-47 Pubmed ID Journal	cortical dysplasias with Taylor-type balloon co lling through activated FLT3 (By similarity). Se 3 by PP2A phosphatase (PubMed:21329884). Application	
Notable Publications	(PubMed:14761976). Ser-473 (PubMed:17013611). Ser-473 473 is dephosphorylated by Author De-Wei Zhu	5 phosphorylation is enhanced in focal 5 phosphorylation is enhanced by signa PHLPP (PubMed:28147277) and Ser-47 Pubmed ID Journal 34658873 Front Pharma	cortical dysplasias with Taylor-type balloon co lling through activated FLT3 (By similarity). Se 5 by PP2A phosphatase (PubMed:21329884). Application Col WB WB	

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





Non-treated PC-3 and Calyculin A treated PC-3 cells were subjected to SDS PAGE followed by western blot with 28731-1-AP (Phospho-AKT (Ser473) antibody) at dilution of 1:3000 incubated at 4° C overnight. The membrane was stripped and re-blotted with GAPDH antibody as loading control.

Non-treated NIH/3T3 and PDGF (HZ-1215) treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 28731-1-AP (Phospho-AKT (Ser473) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.