## For Research Use Only

## PAICS Polyclonal antibody Catalog Number: 12967-1-AP Featured Product

Featured Product

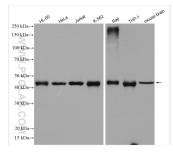




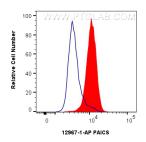
Basic Information	Catalog Number: 12967-1-AP	GenBank Accession Numb BC010273	er: Purification Method: Antigen affinity purification	
	Concentration:	GenelD (NCBI):	Recommended Dilutions:	
	550 ug/ml	10606	WB 1:1000-1:8000 IHC 1:50-1:500	
	Source: Rabbit	UNIPROT ID: P22234		
	Isotype:	Full Name:		
	lgG	phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase		
	Immunogen Catalog Number: AG3621			
		Calculated MW: 425 aa, 47 kDa		
		Observed MW: 47 kDa		
Applications	Tested Applications:	Po	Positive Controls:	
	WB, IHC, ELISA Cited Applications:		WB: HL-60 cells, mouse heart tissue, HeLa cells, Jurkat	
	WB, IHC, IF, ColP		cells, K-562 cells, Raji cells, THP-1 cells, mouse brain tissue	
	Species Specificity: human, mouse			
	Cited Species: human, mouse			
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
Background Information	PAICS is also named as ADE2(Multifunctional protein), AIRC, PAIS. It is an important bifunctional enzyme in de novo purine biosynthesis in vertebrate with both 5-aminoimidazole ribonucleotide carboxylase (AIRc) and 4-(N- succinylcarboxamide)-5-aminoimidazole ribonucleotide synthetase (SAICARs) activities. It becomes an attractive target for rational anticancer drug design, since rapidly dividing cancer cells rely heavily on the purine de novo pathway for synthesis of adenine and guanine, whereas normal cells favor the salvage pathway(PMID:17224163).			
Notable Publications	Author	Pubmed ID Journal	Application	
	Eunus S Ali	32485148 Mol Cell	WB	
	Minjun Meng	30097015 Biol Res	WB	
	Seiya Yamada	32344379 iScience	IF,CoIP	
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide an Aliquoting is unnecessary for -20	d 50% glycerol pH 7.3.		

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

## Selected Validation Data



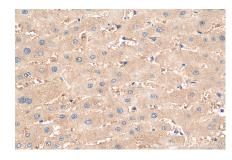
Various lysates were subjected to SDS PAGE followed by western blot with 12967-1-AP (PAICS antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



1x10^6 HeLa cells were intracellularly stained with 0.25 ug PAICS Polyclonal antibody (12967-1-AP) and CoraLite@488-Conjugated Goat Anti-Rabbit lgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit lgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffinembedded human liver tissue slide using 12967-1-AP (PAICS 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 liver tissue slide using 12967-1-AP (PAICS antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).