For Research Use Only

ISYNA1 Polyclonal antibody Catalog Number:14142-1-AP 5 Publications

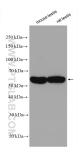


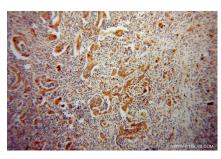
Basic Information	Catalog Number:	GenBank Accession Number			
	14142-1-AP	BC066902	Antigen affinity pu		
	Size: 150ul , Concentration: 600 ug/ml by	GeneID (NCBI): 51477	Recommended Dil WB 1:1000-1:6000	utions:	
	Nanodrop and 233 ug/ml by Bradford		IHC 1:20-1:200		
	method using BSA as the standard;	Q9NPH2	IF/ICC 1:20-1:200		
	Source:	Full Name:			
	Rabbit	inositol-3-phosphate synthase 1			
	Isotype:	Calculated MW:	Calculated MW:		
	IgG	61 kDa			
	Immunogen Catalog Number:	Observed MW:			
	AG5272	61 kDa			
Applications	Tested Applications: Positive Controls:				
	WB, IHC, IF/ICC, ELISA WB : mouse		mouse testis tissue, HepG2 co	e testis tissue, HepG2 cells, rat testis tissue	
	Cited Applications: WB, IF	IHC :	IHC : human pancreas cancer tissue,		
	Species Specificity: human, mouse, rat	IF/IC	IF/ICC : HepG2 cells,		
	Cited Species:				
	mouse, rat				
	with TE buffer pH 9.0; (*) A antigen retrieval may be p with citrate buffer pH 6.0	erformed *			
Background Information	Myo-inositol 3-phosphate synthase (ISYNA1/IP synthase) is a rate-limiting enzyme that catalyzes the first step in the biosynthesis of all inositol containing compounds. It converts glucose 6-phosphate to Myo-inositol 3-phosphate. (PMID:21841945). The native enzyme is typically a homotrimermade up of 68-kDa subunits in mammalian cells and a homotetramer in yeast and plant cells. There are three new isoforms of 62, 43, and 16kDa detected suggesting ISYNA1 is a completely different holoenzyme. But only the brain and testis manifest the 68-kDa isoform, whereas the pancreas has a slightly smaller isoformat 67 kDa. The intestine has a completely unique isoformprofile comprising 62,43, 20kDa isoforms(PMID:19188364).				
Notable Publications	Author Pub	med ID Journal		Application	
	Keke Yu 253	46504 Alcohol Clin	Exp Res	WB, IF	
	Jian-Yi Dong 332	68823 Acta Pharma	col Sin	WB	
	Jianyi Dong 345	04431 Front Pharma	acol	WB	
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer:				
	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20°C storage				
*** 20ul sizes contain 0.1%BSA	quoting is unnecessary for 20 C 3				
For technical support and original validation da	ta for this product places contact:	This nu	oduct is exclusively availabl	a undar Drotaintas	

W: ptglab.com in USA), or 1(312) 455-8498 (outside USA)

other manufacturer.

Selected Validation Data

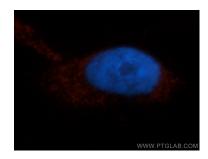




mouse testis tissue were subjected to SDS PAGE followed by western blot with 14142-1-AP (ISYNA1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffinembedded human pancreas cancer using 14142-1-AP (ISYNA1 antibody) at dilution of 1:100 (under 10x lens).

Immunohistochemical analysis of paraffinembedded human pancreas cancer using 14142-1-AP (ISYNA1 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using ISYNA1 antibody 14142-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).