For Research Use Only

## ISYNA1 Polyclonal antibody

Catalog Number:14142-1-AP 4 Publications

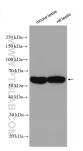


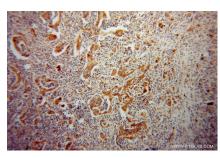
Basic Information	Catalog Number: 14142-1-AP	GenBank Accession Number: BC066902	Purification Method: Antigen affinity purification	
	Size: 600 µg/ml	GenelD (NCBI): 51477	Recommended Dilutions: WB 1:1000-1:6000	
	Source: Rabbit	UNIPROT ID: Q9NPH2	IHC 1:20-1:200 IF 1:20-1:200	
	lsotype: IgG	Full Name: inositol-3-phosphate synthase 1		
	Immunogen Catalog Number: AG5272	Calculated MW: 61 kDa		
		Observed MW: 61 kDa		
Applications	Tested Applications:	Positive Controls:		
	IF/ICC, IHC, WB,ELISA	WB : mouse testis tissue, HepG2 cells, rat testis tissue		
	Cited Applications: IF, WB	IHC : hun	IHC : human pancreas cancer tissue,	
	Species Specificity: IF : HepG2 cells,   human, mouse, rat IF : HepG2 cells,			
	Cited Species: mouse, rat			
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
		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 are 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).		
Background Information	the biosynthesis of all inositol co (PMID:21841945). The native enz a homotetramer in yeast and plan ISYNA1 is a completely different the pancreas has a slightly small	ntaining compounds. It converts gluc yme is typically a homotrimermade u nt cells. There are three new isoforms holoenzyme. But only the brain and t er isoformat 67 kDa. The intestine ha	ose 6-phosphate to Myo-inositol 3-phospha up of 68-kDa subunits in mammalian cells a of 62, 43, and 16kDa detected suggesting estis manifest the 68-kDa isoform, whereas	
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For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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## Selected Validation Data

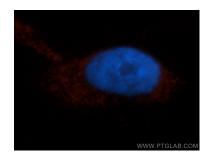




mouse testis tissue were subjected to SDS PAGE followed by western blot with 14142-1-AP (ISYNA1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.

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).