For Research Use Only

WIPI1 Polyclonal antibody Catalog Number:25204-1-AP Featured Product

1 Publications



Basic Information	Catalog Number: 25204-1-AP	GenBank Accession Number: BC039867 GeneID (NCBI): 55062 UNIPROT ID: Q5MNZ9 Full Name: WD repeat domain, phosphoinositide interacting 1 Calculated MW: 446 aa, 49 kDa		Purification Method: Antigen affinity purification				
	Size: 150ul, Concentration: 900 ug/ml by Nanodrop and 380 ug/ml by Bradford method using BSA as the standard; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG18461			Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500				
					Observed MW: 49 kDa			
					Applications	Tested Applications:		Positive Cont
		Cited Applications:		WB: SW 1990		cells, HEK-293 cells, NIH/3T3 cells		
WB, IP		human ovary cancer tissue						
Species Specificity: human, mouse								
Cited Species: human								
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	WIP11, or WD repeat domain, phosphoinositide-interacting protein 1, is a member of the WD40 repeat family of proteins, which are key components of many essential biological functions. WIP11 is involved in the regulation of autophagy, a cellular process critical for maintaining cellular integrity and recycling intracellular proteins, lipids, and organelles. WIP11 is characterized by its 7-bladed β -propeller structure and contains a conserved motif for interaction with phospholipids, specifically binding to phosphoinositides. This interaction is crucial for its function in autophagy, where it acts as an effector of phosphatidylinositol 3-phosphate (PtdIns3P). WIP11 and WIP12 are among the first proteins to be recruited during autophagy, with WIP12 interacting with components of the ULK1/2 complex and PtdIns3P, tethering the phagophore to the endoplasmic reticulum (ER). WIP11 supports the function of WIP12 in recruiting the ATG16L complex, which is essential for LC3 lipidation and autophagosome formation.							
Natable Dublications								
Notable Publications	Author Pub	med ID Journa		Application				
	Yin Zhao 346	89010 Oral O	ncol	WB,IP				
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C s	er shipment. % glycerol pH 7.3. torage						
*** 20ul sizes contain 0.1% BSA	,	0						

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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Selected Validation Data





 $250 \text{kd} \rightarrow$ $150 \text{kd} \rightarrow$ $100 \text{kd} \rightarrow$ $100 \text{kd} \rightarrow$ $70 \text{kd} \rightarrow$ $30 \text{kd} \rightarrow$ $40 \text{kd} \rightarrow$ $30 \text{kd} \rightarrow$

Immunohistochemical analysis of paraffinembedded human intrahepatic cholangiocarcinoma tissue slide using 25204-1-AP (WIPI1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunohistochemical analysis of paraffinembedded human intrahepatic cholangiocarcinoma tissue slide using 25204-1-AP (WIPI1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

SW 1990 cells were subjected to SDS PAGE followed by western blot with 25204-1-AP (WIPI1 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.