For Research Use Only

ATP1A1 Polyclonal antibody

Catalog Number:14418-1-AP

Featured Product 238 Publications

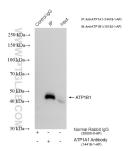


Basic Information	Catalog Number:GenBank Accession Number:14418-1-APBC050359		Purification Method: Antigen affinity purification		
	Concentration:	Genel D (No	CBI):	Recommended Dilutions: WB: 1:20000-1:100000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:1000-1:4000 IF/ICC: 1:400-1:1600 FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension a 1 CoIP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate	
	800 ug/ml	476			
	Source: Rabbit	ENSEMBL C ENSG0000			
	Isotype:	UNIPROTI			
	lgG	P05023			
	Immunogen Catalog Number: AG5763	Full Name ATPase, Na polypeptid	a+/K+ transporting, alpha		
		Calculated 113 kDa			
			Observed MW: 100-110 kDa		
Applications	Tested Applications: WB, IHC, IF/ICC, FC (Intra), IP, CoIP, ELISA Cited Applications: WB, IHC, IF, IP, CoIP Species Specificity: human, mouse, rat Cited Species: human, mouse, rat, pig, chicken		Positive Con	Positive Controls: WB : 37°C incubated mouse brain tissue, HEK-293 cells, 37°C incubated HEK-293 cells	
				IP : HEK-293 cells, A431 cells	
				IHC : human ovary tumor tissue, human cervical cance	
				tissue, human colon tissue, human liver cancer tissue	
			IF/ICC : Cace	IF/ICC : Caco-2 cells, HEK-293 cells	
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		vith FC (Intra) : H	FC (Intra) : HEK-293 cells,	
			en ColP: A431	cells,	
Background Information	ATP1A1 is the catalytic component of Na+/K+-ATPase which is a membrane bound enzyme primarily involved in generation of Na+ and K+ gradients across plasma membranes and in determination of cytoplasmic Na+ levels. ATP1A1 is a ubiquitously expressed membrane protein and often used as the marker or internal control for plasma membrane protein. For optimal WB detection of this membrane protein, we recommend to avoid boiling the sample after lysis.				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Zhen-Ning Lu	31568987	Biomed Pharmacoth	er WB	
	Raphael Berges	30250248	Cell Death Dis	WB	
	Hideaki Kuge	32963038	J Lipid Res	WB	
Storage	Storage: Store at -20°C. Stable for one y Storage Buffer:	ear after shipment			

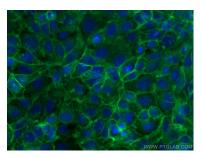
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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

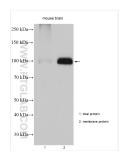
Selected Validation Data



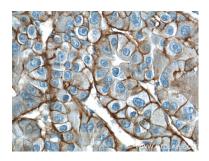
Co-IP result of anti-ATP1A1 (IP:14418-1-AP, 4ug; Detection:15192-1-AP 1:5000) with A431 cells lysate 1000ug.



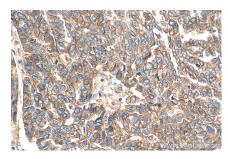
Immunofluorescent analysis of (-20°C Methanol) fixed Caco-2 cells using ATP1A1 antibody (14418-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



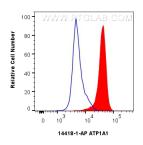
37°C incubated mouse brain total extract lysate and membrane extract lysate were subjected to SDS PAGE followed by western blot with 14418-1-AP (ATP1A1 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



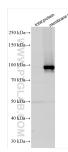
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 14418-1-AP (ATP1A1 Antibody) at dilution of 1:200 (under 40x lens).



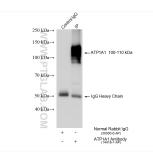
Immunohistochemical analysis of paraffinembedded human ovary tumor tissue slide using 14418-1-AP (ATP1A1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



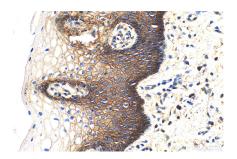
1x10^6 HEK-293 cells were intracellularly stained with 0.4 ug ATP1A1 Polyclonal antibody (14418-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (3000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



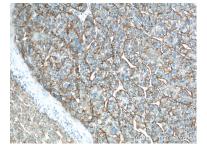
 $37^\circ C$ incubated HEK-293 membrane extract lysate were subjected to SDS PAGE followed by western blot with 14418-1-AP (ATP1A1 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.

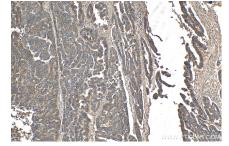


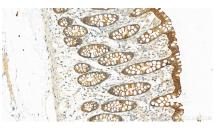
IP result of anti-ATP1A1 (IP:14418-1-AP, 4ug; Detection:14418-1-AP 1:20000) with HEK-293 cells lysate 1470 ug.



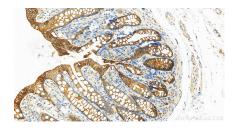
Immunohistochemical analysis of paraffinembedded human cervical cancer tissue slide using 14418-1-AP (ATP1A1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



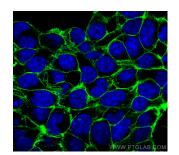




Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 14418-1-AP (ATP1A1 Antibody) at dilution of 1:200 (under 10x lens). Immunohistochemical analysis of paraffinembedded human ovary tumor tissue slide using 14418-1-AP (ATP1A1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunohistochemical analysis of paraffinembedded human normal colon slide using 14418-1-AP (ATP1A1 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human normal colon slide using 14418-1-AP (ATP1A1 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HEK-293 cells using ATP1A1 antibody (14418-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).