For Research Use Only

ATP1A1 Polyclonal antibody Catalog Number:14418-1-AP Featured Product 24

Featured Product 244 Publications



Basic Information	Catalog Number: 14418-1-AP	GenBank Accession Number: BC050359		Purification Method: Antigen affinity purification	
	Size: 150ul, Concentration: 800 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG5763	GeneID (NCBI): 476 ENSEMBL Gene ID: ENSG00000163399 UNIPROT ID: P05023 Full Name: ATPase, Na+/K+ tran polypeptide Calculated MW: 113 kDa Observed MW: 100-110 kDa	isporting, alpha 1	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 CoIP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate	
Applications	Tested Applications:		Positive Cont	rols:	
Аррисацонз	WB, IHC, IF/ICC, FC (Intra), IP, CoIP, E Cited Applications:	ELISA		ncubated mouse brain tissue, HEK-293 cell Iated HEK-293 cells 3 cells, A431 cells	
	WB, IHC, IF, IP, CoIP		IP : HEK-293 c		
	cited Species:			uman ovary tumor tissue, human cervical canc human colon tissue, human liver cancer tissue	
			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		FC (Intra) : HE	FC (Intra) : HEK-293 cells,	
			ColP : A431 c	ells,	
Background Information	generation of Na+ and K+ gradients a ATP1A1 is a ubiquitously expressed	cross plasma membra membrane protein an	anes and in deter d often used as tl	bound enzyme primarily involved in mination of cytoplasmic Na+levels. Na marker or internal control for plasma recommend to avoid boiling the sample	
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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).