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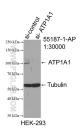
ATP1A1-Specific Polyclonal antibody Catalog Number: 55187-1-AP Featured Product 19 Publications

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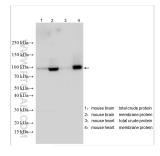
proteintech Antibodies | ELISA kits | Proteins www.ptglab.com

Basic Information	Catalog Number: 55187-1-AP	GenBank Accession Number: NM_000701 Genel D (NCBI): 0 ug/ml by 476		Purification Method: Antigen affinity purification	
	Size:			Recommended Dilutions: WB 1:5000-1:50000	
	150ul , Concentration: 600 ug/ml by Nanodrop; Source:				
		ENSEMBL G	ene ID:	IHC 1:500-1:2000	
		ENSG00000163399		IF/ICC 1:500-1:2000	
	Rabbit	UNIPROT ID: P05023 Full Name: ATPase, Na+/K+ transporting, alpha 1 polypeptide Calculated MW: 113 kDa Observed MW: 100-110 kDa			
	Isotype:				
	IgG				
Applications	Tested Applications:	ions: Positive Controls:			
	WB, IHC, IF/ICC, FC (Intra), ELISA		WB: 37°C i	WB : 37°C incubated mouse brain tissue, HEK-293 cells, HepG2 cells, MCF-7 cells, 37°C incubated mouse heart tissue, Neuro-2a cells	
	Cited Applications: WB, IF				
	Species Specificity: human, mouse		IHC : huma	IHC : human ovary cancer tissue, human colon tissue, human kidney tissue, human liver cancer tissue,	
	Cited Species:		mouse kid	mouse kidney tissue	
	human, mouse, rat			IF/ICC : HEK-293 cells, Caco-2 cells	
	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	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. This antibody is specific to ATP1A1.				
Notable Publications	Author Pul	bmed ID	Journal	Application	
	Jun Lin 34	514733	Adv Sci (Weinh)	WB	
	Yan Xu 27	857155	Sci Rep	IF	
	Yuetao Wen 35	609730	Neurosci Res	WB	
Storage	Storage: Store at -20°C. Stable for one year af Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C :	D% glycerol p			
*** 20ul sizes contain 0.1%BSA					
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)	ta for this product please contact: E: proteintech@ptglab.com W: ptglab.com		Group brand	This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.	

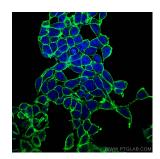
Selected Validation Data



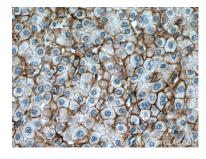
WB result of ATP1A1-Specific antibody (55187-1-AP; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATP1A1-Specific transfected HEK-293 cells.



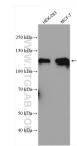
37°C incubated mouse brain membrane extract lysate and 37°C incubated mouse heart membrane extract lysate were subjected to SDS PAGE followed by western blot with 55187-1-AP (ATP1A1-Specific antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



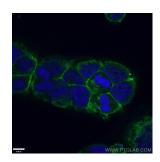
Immunofluorescent analysis of (-20°C Methanol) fixed HEK-293 cells using ATP1A1-Specific antibody (55187-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



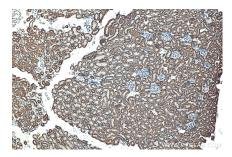
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 55187-1-AP (ATP1A1-Specific antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



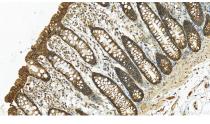
Various lysates were subjected to SDS PAGE followed by western blot with 55187-1-AP (ATP1A1-Specific antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed Caco-2 cells using 55187-1-AP (ATP1A1-Specific antibody) at dilution of 1:100 and Coralite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



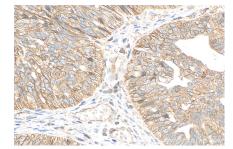
Immunohistochemical analysis of paraffinembedded mouse kidney tissue slide using 55187-1-AP (ATP1A1-Specific antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

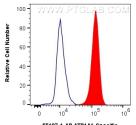


Immunohistochemical analysis of paraffin-embedded human normal colon slide using 55187-1-AP (ATP1A1-Specific antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 55187-1-AP (ATP1A1-Specific antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).





55187-1-AP ATP1A1-Specific

Immunohistochemical analysis of paraffinembedded human ovary cancer tissue slide using 55187-1-AP (ATP1A1-Specific antibody) at dilution of 1:1000 (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-Specific Polyclonal antibody (55187-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).