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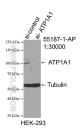
ATP1A1-Specific Polyclonal antibody Catalog Number: 55187-1-AP Featured Product 19 Publications

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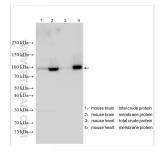
proteintech Antibodies | ELISA kits | Proteins www.ptglab.com

| 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. | |

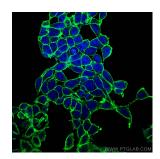
Selected Validation Data



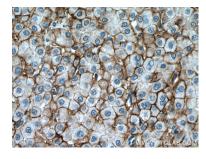
WB result of ATP1A1-Specific antibody (55187-1-AP; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATP1A1-Specific transfected HEK-293 cells.



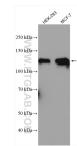
37°C incubated mouse brain membrane extract lysate and 37°C incubated mouse heart membrane extract lysate were subjected to SDS PAGE followed by western blot with 55187-1-AP (ATP1A1-Specific antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



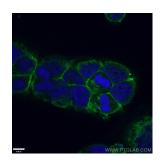
Immunofluorescent analysis of (-20°C Methanol) fixed HEK-293 cells using ATP1A1-Specific antibody (55187-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



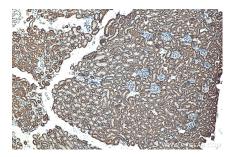
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 55187-1-AP (ATP1A1-Specific antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



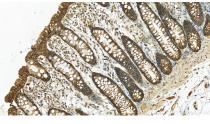
Various lysates were subjected to SDS PAGE followed by western blot with 55187-1-AP (ATP1A1-Specific antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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).



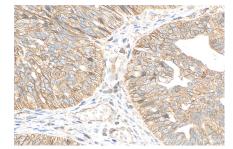
Immunohistochemical analysis of paraffinembedded mouse kidney tissue slide using 55187-1-AP (ATP1A1-Specific antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

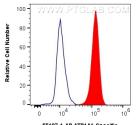


Immunohistochemical analysis of paraffin-embedded human normal colon slide using 55187-1-AP (ATP1A1-Specific antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).