

Anti-ATP1A1 Antibody (Internal)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18419

Product Information

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| Application | WB, IHC-P |
| Primary Accession | P05023 |
| Predicted | Human, Mouse, Rat, Pig, Sheep, Bovine, Dog |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 112896 |
| Concentration (mg/ml) | 1 mg/ml |

Additional Information

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|-------------------------------------|---|
| Gene ID | 476 |
| Alias Symbol | ATP1A1 |
| Other Names | ATP1A1, Na ⁺ , K ⁺ ATPase alpha subunit, Na, K-ATPase alpha-1 subunit, Na ⁺ /K ⁺ ATPase 1, Sodium pump 1, Sodium pump subunit alpha-1 |
| Target/Specificity | Recognizes endogenous levels of ATP1A1 protein. |
| Reconstitution & Storage | Immunoaffinity purified |
| Precautions | Anti-ATP1A1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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|--------------------------|--|
| Name | ATP1A1 |
| Function | This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport of various nutrients (PubMed: 29499166 , PubMed: 30388404). Could also be part of an osmosensory signaling pathway that senses body-fluid sodium levels and controls salt intake behavior as well as voluntary water intake to regulate sodium homeostasis (By similarity). |
| Cellular Location | Cell membrane {ECO:0000250 UniProtKB:Q8VDN2}; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250 UniProtKB:P06685}; Multi-pass membrane protein. Cell membrane, sarcolemma; Multi-pass membrane protein. Cell projection, axon {ECO:0000250 UniProtKB:P06685}. Melanosome. Note=Identified by mass spectrometry in melanosome fractions |

from stage I to stage IV

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.