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Anti-ATP1A1 Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18294

Product Information

Application	WB, IHC-P, IP
Primary Accession	P05023
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	112896

Additional Information

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	Human ATP1A1
Reconstitution & Storage	Affinity purified
Precautions	Anti-ATP1A1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

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