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ATP1A1 Antibody (aa5-54)

Rabbit Polyclonal Antibody

Catalog # ALS14721

Specification

ATP1A1 Antibody (aa5-54) - Product Information

Application	**IF, WB, IHC**
Primary Accession	P05023
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**113kDa KDa**

ATP1A1 Antibody (aa5-54) - Additional Information

Gene ID 476

Other Names
Sodium/potassium-transporting ATPase subunit alpha-1, Na(+)/K(+) ATPase alpha-1 subunit, 3.6.3.9, Sodium pump subunit alpha-1, ATP1A1

Target/Specificity
ATPase antibody detects endogenous levels of total ATPase protein.

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
ATP1A1 Antibody (aa5-54) is for research use only and not for use in diagnostic or therapeutic procedures.

ATP1A1 Antibody (aa5-54) - 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.

Cellular Location
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

Volume

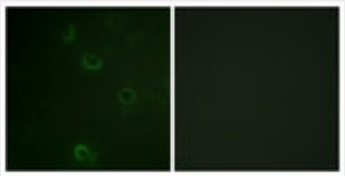
50 µl

ATP1A1 Antibody (aa5-54) - Protocols

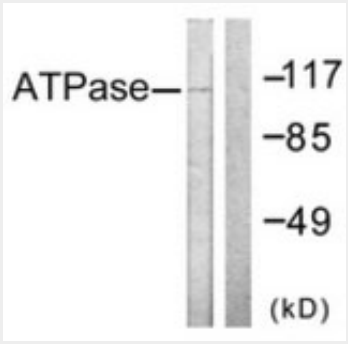
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

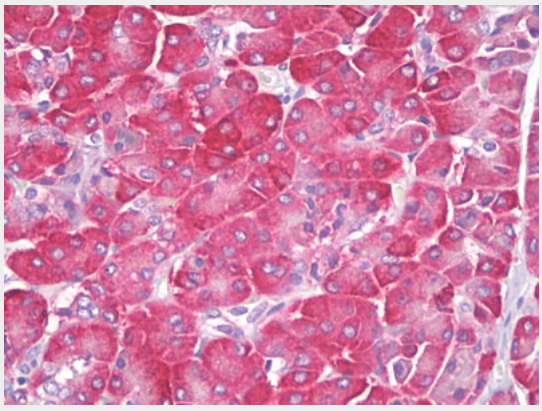
ATP1A1 Antibody (aa5-54) - Images



Immunofluorescence of COS7 cells, using ATPase antibody.



Western blot of extracts from 293 cells, treated with PMA 125 ng/ml 30', using ATPase antibody.



Anti-ATP1A1 antibody IHC of human pancreas.

ATP1A1 Antibody (aa5-54) - Background

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.

ATP1A1 Antibody (aa5-54) - References

Kawakami K.,et al.J. Biochem. 100:389-397(1986).
Ruiz A.,et al.Gene 155:179-184(1995).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.