

Na⁺/K⁺-ATPase α 1 (Phospho Ser16) Rabbit pAb

CatalogNo: YP0644 Orthogonal Validated 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 112kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:5000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human ATPase around the phosphorylation site of Ser16. AA range:5-54

Specificity

Phospho-Na⁺/K⁺-ATPase α1 (S16) Polyclonal Antibody detects endogenous levels of Na⁺/K⁺-ATPase α1 protein only when phosphorylated at S16. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):AVsEH

| Target Information

Gene name ATP1A1

Protein Name Sodium/potassium-transporting ATPase subunit alpha-1

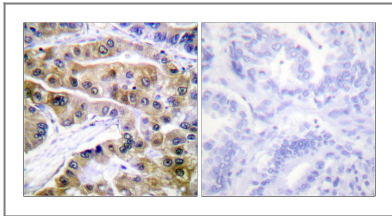
Organism	Gene ID	UniProt ID
Human	476 ;	P05023 ;
Mouse	11928 ;	Q8VDN2 ;
Rat	24211 ;	P06685 ;

Cellular Localization Basolateral cell membrane ; Multi-pass membrane protein . Cell membrane, sarcolemma ; Multi-pass membrane protein . Cell projection, axon . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV. .

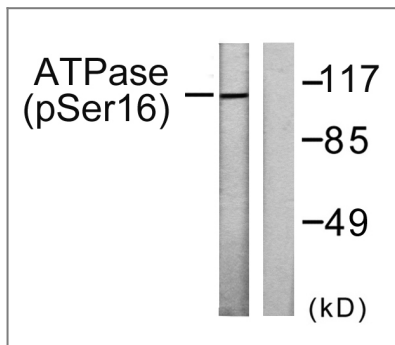
Tissue specificity Brain,Cerebellum,Cervix,Placenta,Retinal pigment epithelium

Function Catalytic activity:ATP + H₂O + Na⁽⁺⁾(In) + K⁽⁺⁾(Out) = ADP + phosphate + Na⁽⁺⁾(Out) + K⁽⁺⁾(In).,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.,PTM:Phosphorylation on Tyr-10 modulates pumping activity.,similarity:Belongs to the cation transport ATPase (P-type) family.,similarity:Belongs to the cation transport ATPase (P-type) family. Type IIC subfamily.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subunit:Composed of three subunits: alpha (catalytic), beta and gamma. Binds the HLA class II histocompatibility antigen, DR1.,

| Validation Data



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using ATPase (Phospho-Ser16) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with PMA 125ng/ml 30', using ATPase (Phospho-Ser16) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
Na⁺/K⁺-ATPase α 1 (Phospho Ser16) Rabbit pAb

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