

Na⁺/K⁺-ATPase α1 (Phospho Tyr260) Rabbit pAb

CatalogNo: YP1226

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC

MW

- 115kD (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 1:500-2000

IHC 1:50-300

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho derived from human Na⁺/K⁺-ATPase α1 (Phospho-Tyr260)
Polyclonal

Specificity This antibody detects endogenous levels of Na⁺/K⁺-ATPase α1 (Phospho-Tyr260). 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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): VVyTG

Target Information

Gene name ATP1A1

Protein Name Sodium/potassium-transporting ATPase subunit alpha-1 (Na⁺)/K⁺ ATPase alpha-1 subunit) (Sodium pump subunit alpha-1)

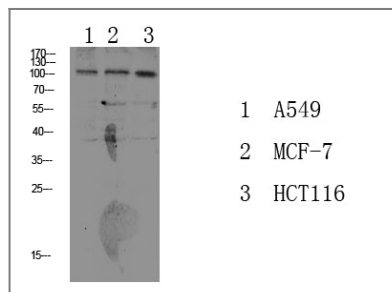
Organism	Gene ID	UniProt ID
Human	476;	P05023;
Mouse	11928;	Q8VDN2;
Rat	24211;	P06685;

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. .

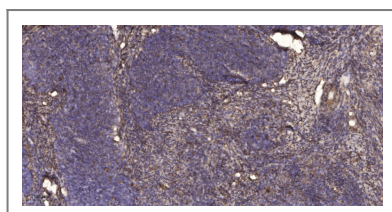
Tissue specificity Brain,Cerebellum,Cervix,Placenta,Retinal pigment epithelium

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



Western blot analysis of various lysate, antibody was diluted at 1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human cervical carcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

| Contact information

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Na⁺/K⁺-ATPase α 1 (Phospho Tyr260) Rabbit pAb

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