Glowing products for science

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Sodium Potassium ATPase (Na/K ATPase) Recombinant Rabbit Monoclonal Antibody (rST0533) - Biotium Choice



A recombinant rabbit monoclonal antibody that recognizes Sodium potassium ATPase from human, mouse, rat, and other species. The antibody belongs to the Biotium Choice list of select antibodies that have been validated in-house for optimal performance.

Product Description

A recombinant rabbit monoclonal antibody that recognizes Sodium potassium ATPase from human, mouse, rat, and other species.

This antibody belongs to the Biotium Choice list of select antibodies that have been validated and optimized in-house for optimal performance. The antibody is available conjugated to a selection of CF® Dyes. They are supplied in PBS, 2 mg/mL rBSA, and 0.05% sodium azide.

- Available in bright and photostable CF® Dyes, including near-IR CF®740 and CF®790
- Suitable for immunofluorescence, IHC, western, and flow cytometry

Sodium Potassium ATPase is an integral membrane protein complex that hydrolyzes ATP to maintain the transmembrane gradients of Na+ and K+ found in most mammalian cells. The Sodium Potassium ATPase enzyme is comprised of an alpha and beta subunit. The alpha-polypeptide (Sodium Potassium ATPase Alpha 1) has been shown to be the catalytically active subunit, whereas the Beta-polypeptide appears to be necessary for the assembly and transport of the sodium pump to the plasma membrane. Sodium Potassium ATPase alpha-1 subunit, in the brain, is expressed in both neuronal and non-neuronal cells.

Discover Sharper Signals and Unmatched Panel Flexibility with Biotium Choice Antibodies - Powered by CF® Dyes

Biotium Choice antibodies are carefully curated and validated in-house to offer exceptional signal-to-noise. Labeled with our advanced CF® Dyes, they are our top-recommended antibodies for immunofluorescence and other applications.

Biotium Choice Antibody Features

- Robust and validated clones against common targets
- Developed and optimized for immunofluorescence and other applications
- Conjugated to bright, photostable CF® Dyes for superior signal and clarity
- New antibody clones and dye conjugates continuously in development

View our full catalog of Biotium Choice antibodies

Product attributes

Antibody number	P065
Antibody reactivity (target)	ATP1A1
Biotium Choice Antibody	Primary
Antibody type	Biotium Choice, Primary
Host species	Rabbit
Clonality	Monoclonal, Recombinant Monoclonal
Clone	rST0533
Molecular weight of antigen	~110 kDa
Synonyms	Na/K ATPase; ATP1A1; ATP1AL2; Atpa-1; CMT2DD; HOMGSMR2; Nkaa1b
Human gene symbol	ATP1A1
Entrez gene ID	476
SwissProt	P05023
Antibody target cellular localization	Plasma membrane
Verified antibody applications	IF (verified), IHC (FFPE) (verified), IHC (frozen) (verified)
Species reactivity	Human, Mouse, Rat
Expected antibody applications	WB (published for clone)
Antibody application notes	Immunofluorescence (HeLa): 1-5 ug/mL Optimal concentration to be determined by end-user.
Positive control	HeLa cells., Human colon, MCF7 Cells, Rat jejunum
Shipping condition	Room temperature
Storage Conditions	Store CF® Dye conjugates at 2 °C to 8 °C, Protect from light
Shelf life	Guaranteed for at least 24 months from date of receipt when stored as recommended
Regulatory status	For research use only (RUO)
Antibody/conjugate formulation	CF® Dye Conjugates: PBS/2 mg/mL rBSA/ 0.05% sodium azide
Product origin	Recombinant BSA produced in Chinese hamster ovary cells, Recombinant mouse IgG produced in Chinese Hamster Ovary (CHO) cell line
Antibody research areas	Cancer
Volume per assay	5 uL/test

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Conjugation	Ex/Em	Size	Catalog No.
CF®488	490/515 nm	500 uL	P065-488-500UL
CF®488A	490/515 nm	500 uL	P065-488A-500UL
CF®568	562/584 nm	500 uL	P065-568-500UL
CF®594	593/614 nm	500 uL	P065-594-500UL
CF®640R	642/662 nm	500 uL	P065-640R-500UL
CF®647	652/668 nm	500 uL	P065-647-500UL
CF®680R	680/701 nm	500 uL	P065-680R-500UL
CF®740	742/767 nm	500 uL	P065-740-500UL
CF®790	783/808 nm	500 uL	P065-790-500UL