

bsm-52485R**[Primary Antibody]**

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www.bioss.com.cn

sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

Sodium Potassium ATPase Recombinant Rabbit mAb

DATASHEET

Host: Rabbit**Clonality:** Recombinant**GeneID:** 476**Target:** Sodium Potassium ATPase**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

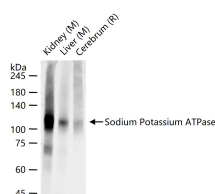
Background: The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na⁺/K⁺-ATPases. Na⁺/K⁺-ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The catalytic subunit of Na⁺/K⁺-ATPase is encoded by multiple genes. This gene encodes an alpha 1 subunit. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May2009].

Isotype: IgG**CloneNo.:** 13H5**SWISS:** P05023**Applications:** WB (1:2000-20000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1ug/Test)**ICC/IF** (1:50-200)**Reactivity:** Human, Mouse, Rat

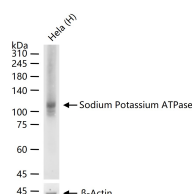
Predicted MW.: 113 kDa

Subcellular Location: Cell membrane

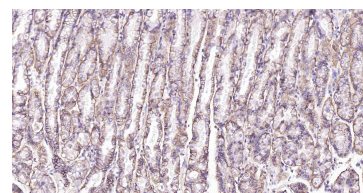
VALIDATION IMAGES



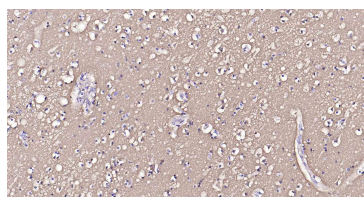
25 ug total protein per lane of various lysates (see on figure) probed with Sodium Potassium ATPase monoclonal antibody, unconjugated (bsm-52485R) at 1:20000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



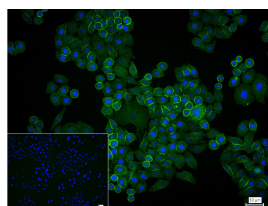
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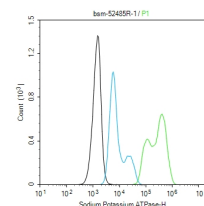
Paraformaldehyde-fixed, paraffin embedded Human Fundus; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Sodium Potassium ATPase Monoclonal Antibody, Unconjugated (bsm-52485R) at 1:100 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Sodium Potassium ATPase Monoclonal Antibody, Unconjugated (bsm-52485R) at 1:100 overnight at 4°C, followed by conjugation to the SP Kit



4% Paraformaldehyde-fixed HeLa (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (Sodium Potassium ATPase) monoclonal Antibody, unconjugated (bsm-52485R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used



The HeLa (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5% BSA to block non-specific protein-protein interactions (30 min at r.t.). Primary Antibody (green): Rabbit Anti-Sodium Potassium ATPase antibody

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

(Rabbit, SP-0023) and DAB (C-0010) staining.

to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

(bsm-52485R): 1 $\mu\text{g}/10^6$ cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF488 (bs-60295G-BF488): 1 $\mu\text{g}/\text{test}$. Blank control (black): PBS. Acquisition of 20,000 events was performed.