

Na⁺/K⁺-ATPase polyclonal antibody

Catalog: BS90909

Host: Rabbit

Reactivity: Human, Mouse, Rat

Background:

The ubiquitously expressed sodium/potassium-ATPase (Na⁺/K⁺-ATPase) exists as an oligomeric plasma membrane complex that couples the hydrolysis of one molecule of ATP to the importation of three Na⁺ ions and two K⁺ ions against their respective electrochemical gradients. As a member of the P-type family of ion motives, Na⁺/K⁺-ATPase plays a critical role in maintaining cellular volume, resting membrane potential and Na⁺-coupled solute transport. Multiple isoforms of three subunits, α , β and γ , comprise the Na⁺/K⁺-ATPase oligomer. The α subunit contains the binding sites for ATP and the cations; the glycosylated β subunit ensures correct folding and membrane insertion of the α subunits. The small γ subunit co-localizes with the α subunit in nephron segments, where it increases the affinity of Na⁺/K⁺-ATPase for ATP. The β subunit, but not the γ subunit, is essential for normal activity of Na⁺/K⁺-ATPase.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

100 kDa

Swiss-Prot:

P05023(Human) P05026(Human) Q13733(Human)
P14094(Mouse) Q8VDN2(Mouse) Q9WV27(Mouse)
P06685(Rat) P07340(Rat) Q64541(Rat)

Purification&Purity:

ProA affinity purified

Applications:

WB:1:1,000-1:5,000

ICC:1:50-1:200

IHC:1:50-1:200

FC:1:50-1:100

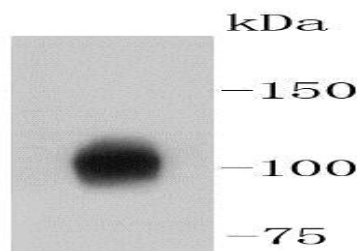
Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

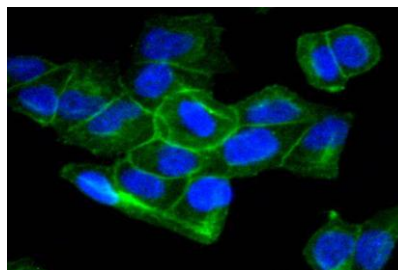
Specificity:

Na⁺/K⁺-ATPase polyclonal antibody detects endogenous levels of Na⁺/K⁺-ATPase protein.

DATA:



Western blot analysis of Sodium Potassium ATPase on A549 cell lysates using anti-Sodium Potassium ATPase antibody at 1/1,000 dilution.



ICC staining Sodium Potassium ATPase in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Note:

For research use only, not for use in diagnostic procedure.

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