

**Na⁺/K⁺-ATPase α 2 (R1007) polyclonal antibody**

Catalog: BS3401

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

The ubiquitously expressed sodium/potassium-ATPase exists as a 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, sodium/potassium-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 to form the sodium/potassium-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 colocalizes with the α -subunit in nephron segments where it increases the affinity of sodium/potassium ATPase for ATP. The β -subunit, but not the γ -subunit, is essential for normal activity of sodium/potassium ATPase.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 112 kDa

Swiss-Prot:

P50993

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Na⁺/K⁺-ATPase α 2 (R1007) pAb detects endogenous levels of Na⁺/K⁺-ATPase α 2 protein

DATA:**Note:**

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

Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416, USA.

Email: info@bioworld.com

Tel: 6123263284

Fax: 6122933841

Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

Email: info@biogol.com

Tel: 0086-025-68037686

Fax: 0086-025-68035151