**bsm-34014M** **[ Primary Antibody ]**

# Sodium Potassium ATPase Mouse mAb

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## DATASHEET

**Host:** Mouse
**Isotype:** IgG1, k
**Clonality:** Monoclonal
**CloneNo.:** 2G11
**GeneID:** 476
**SWISS:** P05023
**Target:** Sodium Potassium ATPase
**Immunogen:** Recombinant human Sodium Potassium ATPase: 551-850/1023.
**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].

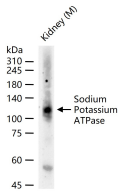
**Applications:** **WB** (1:2000-10000)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)

**Reactivity:** Human, Mouse, Rat

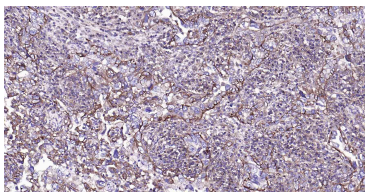
**Predicted MW.:** 113 kDa

**Subcellular Location:** Cell membrane

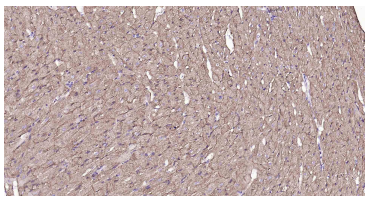
## VALIDATION IMAGES



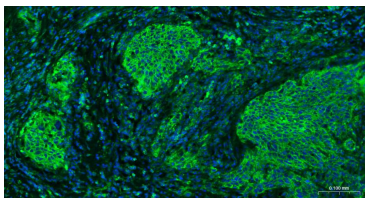

25 ug total protein per lane of various lysates (see on figure) probed with Sodium Potassium ATPase monoclonal antibody, unconjugated (bsm-34014M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



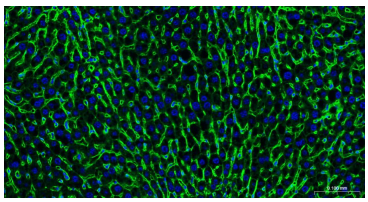
Paraformaldehyde-fixed, paraffin embedded Human Cervical Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Sodium Potassium ATPase Monoclonal Antibody, Unconjugated(bsm-34014M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Heart; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Sodium Potassium ATPase Monoclonal Antibody, Unconjugated(bsm-34014M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Cervical Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Sodium Potassium ATPase Monoclonal Antibody,



Paraformaldehyde-fixed, paraffin embedded Mouse Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Sodium Potassium ATPase Monoclonal Antibody, Unconjugated

Unconjugated (bsm-34014M) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-0296G-BF488), DAPI (blue, C02-04002) was used to stain the cell nuclei.

(bsm-34014M) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-0296G-BF488), DAPI (blue, C02-04002) was used to stain the cell nuclei.

## SELECTED CITATIONS

- **[IF=3.9]** Shiqing Xu. et al. Circ_0000284 Is Involved in Arsenite-Induced Hepatic Insulin Resistance Through Blocking the Plasma Membrane Translocation of GLUT4 in Hepatocytes via IGF2BP2/PPAR-γ. TOXICS. 2024 Dec;12(12):883 WB ;Mouse,Human. 39771098