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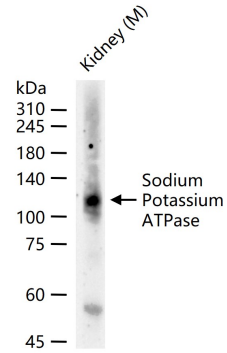
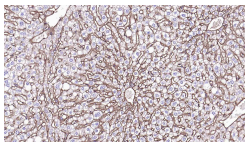
Sodium Potassium ATPase Mouse mAb

Catalog Number:	bsm-34014M
Target Protein:	Sodium Potassium ATPase
Concentration:	1mg/ml
Form:	Liquid
Host:	Mouse
Clonality:	Monoclonal
Clone No.:	2G11
Isotype:	IgG1,k
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 Locations:	Cell membrane
Entrez Gene:	476
Swiss Prot:	P05023
Source:	Recombinant human Sodium Potassium ATPase: 551-850/1023.
Purification:	affinity purified by Protein A
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].

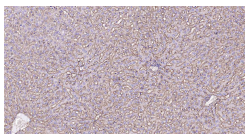
VALIDATION IMAGES



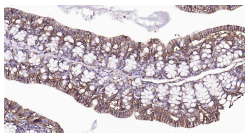
25 ug total protein per lane of various lysates (see on figure) probed with Sodium Potassium ATPase monoclonal antibody, unconjugated (bsm-34014M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



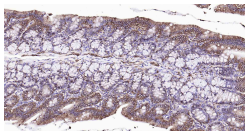
Paraformaldehyde-fixed, paraffin embedded Mouse Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Sodium Potassium ATPase Monoclonal Antibody, Unconjugated(bsm-34014M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024)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



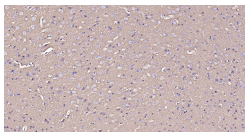
Paraformaldehyde-fixed, paraffin embedded Rat Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Sodium Potassium ATPase Monoclonal Antibody, Unconjugated(bsm-34014M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024)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



Paraformaldehyde-fixed, paraffin embedded Mouse Colon; 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 Colon; 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 Mouse Cerebrum; 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.

PRODUCT SPECIFIC PUBLICATIONS

[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