Mouse Potassium-transporting ATPase subunit beta (ATP4B) ELISA Kit

Catalog No: #EK11331

Package Size: #EK11331-1 48T #EK11331-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse Potassium-transporting ATPase subunit beta (ATP4B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	RP11-230F18.4; ATP6B; ATPase; H+/K+ transporting; beta polypeptide|gastric H+/K+ ATPase beta subunit|gastric hydrogen-potassium ATPase; beta|hydrogen/potassium-exchanging ATPase 4B|potassium-transpo
Accession No.	P50992
Uniprot	P50992
GeneID	11945;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.066 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate ATP4B in samples. An antibody specific for ATP4B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyATP4B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ATP4B is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ATP4B bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:ATP4b belongs to a family of P-type cation-transporting ATPases. The gastric H+, K+-ATPase is a heterodimer consisting of a high molecular weight catalytic alpha subunit and a smaller but heavily glycosylated beta subunit. This enzyme is a proton pump that catalyzes the hydrolysis of ATP coupled with the exchange of H(+) and K(+) ions across the plasma membrane. Hydrogen-potassium adenosine triphosphatase belongs to a family of P-type cation-transporting ATPases that also includes Ca(2+)-ATPase and Na(+),K(+)-ATPase. In gastric parietal cells, H(+),K(+)-ATPase plays an essential role in the formation of hydrochloric acid. Like the

Na(+),K(+)-ATPase, H(+),K(+)-ATPase is a heterodimer consisting of a high molecular weight catalytic alpha subunit and a smaller but heavily glycosylated beta subunit.

Note: This product is for in vitro research use only