

Human Putative potassium channel regulatory protein (KCNRG) ELISA Kit



Catalog No: #EK10238

Orders: order@signalwayantibody.com

Package Size: #EK10238-1 48T #EK10238-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Putative potassium channel regulatory protein (KCNRG) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	RP11-34F20.6; DLTET;
Accession No.	Q8N5I3
Uniprot	Q8N5I3
GeneID	283518;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.078 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 KCNRG in samples. An antibody specific for KCNRG has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKCNRG present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KCNRG 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 KCNRG bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**KCNRG is a soluble protein with characteristics suggesting it forms hetero-tetramers with voltage-gated K⁺ channels and inhibits their function. KCNRG has been found to be predominatly expressed in lung tissue. Additionally, KCNRG transcripts are also found in liver and some other tissues, but in lower extent. Researchers at Uppsala University have found that KCNRG is found in the lower lung and constitutes an autoantigen in a rare disorder named autoimmune polyendocrine syndrome type 1 (APS1). As a subset of patients with APS1 suffer from respiratory disease, an autoimmune reaction against KCNRG may explain the respiratory disease in these patients. KCNRG may also be connected to common nonfatal diseases like asthma and chronic bronchitis.

Note: This product is for in vitro research use only