Rat G protein-activated inward rectifier potassium channel 4 (KCNJ5) ELISA Kit

Catalog No: #EK10241

Package Size: #EK10241-1 48T #EK10241-2 96T

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

Description

Product Name	Rat G protein-activated inward rectifier potassium channel 4 (KCNJ5) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	CIR; GIRK4; KATP1; KIR3.4; G protein-activated inward rectifier potassium channel 4 (GIRK4) (Potassium channel; inwardly rectifying; subfamily J; member 5) (Inward rectifier K+ channel Kir3.4) (Hear
Accession No.	P48548
Uniprot	P48548
GeneID	29713;
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:0.055 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 KCNJ5 in samples. An antibody specific for KCNJ5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKCNJ5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KCNJ5 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 KCNJ5 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:KCNJ5 is an integral membrane protein and inward-rectifier type potassium channel. The encoded protein, which has a greater tendency to allow potassium to flow into a cell rather than out of a cell, is controlled by G-proteins. It may associate with two other G-protein-activated potassium channels to form a heteromultimeric pore-forming complex. Girk4 associated with Girk1 during or shortly after subunit synthesis and allowed appropriate glycosylation of the Girk1 subunit to a form seen in native atrial tissue. The C terminus of Girk4 was required for cell surface localization. Girk1 appeared intracellular in atrial myocytes isolated from Girk4-knockout mice, and it was not maturely glycosylated, supporting an essential role for GIRK4 in processing and cell surface localization of GIRK1/GIRK4 channels in vivo.

Note: This product is for in vitro research use only