Rat Beta-adrenergic receptor kinase 2 (ADRBK2) ELISA Kit

Catalog No: #EK7766

Package Size: #EK7766-1 48T #EK7766-2 96T

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Description

Product Name	Rat Beta-adrenergic receptor kinase 2 (ADRBK2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	BARK2; GRK3; beta-adrenergic receptor kinase 2
Accession No.	P26819
Uniprot	P26819
GeneID	25372;
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:0.78-50 ng/mL

Sensitivity:0.31 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 ADRBK2 in samples. An antibody specific for ADRBK2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyADRBK2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADRBK2 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 ADRBK2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The beta-adrenergic receptor kinase specifically phosphorylates the agonist-occupied form of the beta-adrenergic and related G protein-coupled receptors. Overall, the beta adrenergic receptor kinase 2 has 85% amino acid similarity with beta adrenergic receptor kinase 1, with the protein kinase catalytic domain having 95% similarity. These data suggest the existence of a family of receptor kinases which may serve broadly to regulate receptor function.

Beta adrenergic receptor kinase-2 (ARBK2, BARK-2, G-protein-coupled receptor kinase 3, GRK3) is an intracellular enzyme that phosphorylates G protein-coupled receptors. It was cloned from mice and rats in 1991. The human gene was cloned in 1993.

Note: This product is for in vitro research use only