

# Human Beta-adrenergic receptor kinase 1 (ADRBK1) ELISA Kit



Catalog No: #EK7765

Orders: order@signalwayantibody.com

Package Size: #EK7765-1 48T #EK7765-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human Beta-adrenergic receptor kinase 1 (ADRBK1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	BARK1; BETA-ARK1; FLJ16718; GRK2; beta-adrenergic receptor kinase 1
Accession No.	P25098
Uniprot	P25098
GeneID	156;
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:0.312-20 ng/mL

Sensitivity:0.133 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 ADRBK1 in samples. An antibody specific for ADRBK1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyADRBK1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADRBK1 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 ADRBK1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Beta-adrenergic receptor kinase (BARK) phosphorylates the beta-2-adrenergic receptor and appears to mediate agonist-specific desensitization observed at high agonist concentrations. BARK is a ubiquitous cytosolic enzyme that specifically phosphorylates the activated form of the beta-adrenergic and related G protein-coupled receptors.

By study of rodent/human hybrid cells retaining various human chromosomes and parts of chromosomes, Benovic et al. (1991) demonstrated that the ADRBK1 gene segregates with the long arm of chromosome 11, centromeric to 11q13, i.e., 11cen-q13. Benovic et al. (1991) mapped the homologous gene to mouse chromosome 19.

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Note: This product is for in vitro research use only