

Rat Adrenergic alpha-1A receptor (ADRA1A) ELISA Kit



Catalog No: #EK7757

Orders: order@signalwayantibody.com

Package Size: #EK7757-1 48T #EK7757-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Rat Adrenergic alpha-1A receptor (ADRA1A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	ADRA1C; ADRA1L1; ALPHA1AAR; G protein coupled receptor adrenergic; alpha -1A-; receptor adrenergic; alpha-1A-; receptor variant 1 adrenergic; alpha-1A-; receptor variant 3 adrenergic; alpha-1A-; rec
Accession No.	O02824
Uniprot	O02824
GeneID	100009237;
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:0.28 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 ADRA1A in samples. An antibody specific for ADRA1A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyADRA1A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADRA1A 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 ADRA1A bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The alpha 1c- Adrenergic Receptor, also known as alpha 1a-adrenoceptor, is activated by epinephrine and norepinephrine. This receptor mediates calcium release upon ligand binding. The alpha 1-c adrenoceptor is one of three subtypes of alpha 1-adrenergic receptor (alpha 1 c/a, alpha 1b, and alpha 1d). The alpha 1c receptor couples to phospholipase C via a GTP-binding protein insensitive to pertussis toxin. Three isoforms are generated by alternative splicing. However, the corresponding isoforms of the protein have similar ligand-binding properties, effector coupling, and tissue distribution. Expression of this receptor has been reported in prostate, liver, kidney, heart, brain, spinal cord, bladder, and various blood vessels. ESTs have been isolated from liver and testis libraries.

Note: This product is for in vitro research use only