

Human Beta-2 adrenergic receptor (ADRB2) ELISA Kit



Catalog No: #EK7761

Orders: order@signalwayantibody.com

Package Size: #EK7761-1 48T #EK7761-2 96T

Support: tech@signalwayantibody.com

Description

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|--------------------|--|
| Product Name | Human Beta-2 adrenergic receptor (ADRB2) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Human (Homo sapiens) |
| Other Names | ADRB2R; ADRBR; B2AR; BAR; BETA2AR; beta-2 adrenergic receptor beta-2 adrenoceptor catecholamine receptor |
| Accession No. | P07550 |
| Uniprot | P07550 |
| GeneID | 154; |
| 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:18.75-1200 pg/mL

Sensitivity:4.69 pg/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 ADRB2 in samples. An antibody specific for ADRB2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyADRB2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADRB2 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 ADRB2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**ADRB2 is directly associated with one of its ultimate effectors, the class C L-type calcium channel CaV1.2. This gene encodes beta-2-adrenergic receptor which is a member of the G protein-coupled receptor superfamily. This receptor is directly associated with one of its ultimate effectors, the class C L-type calcium channel Ca(V)1.2. This receptor-channel complex also contains a G protein, an adenylyl cyclase, cAMP-dependent kinase, and the counterbalancing phosphatase, PP2A. The assembly of the signaling complex provides a mechanism that ensures specific and rapid signaling by this G protein-coupled receptor. This gene is intronless. Different polymorphic forms, point mutations, and/or downregulation of this gene are associated with nocturnal asthma, obesity and type 2 diabetes.

Note: This product is for in vitro research use only