

Rat Adenosine receptor A3 (ADORA3) ELISA Kit

Catalog No: #EK7752



Package Size: #EK7752-1 48T #EK7752-2 96T

Orders: order@signalwayantibody.com

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Description

Product Name	Rat Adenosine receptor A3 (ADORA3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	RP11-552M11.7; A3AR; AD026; bA552M11.5;
Accession No.	O02667
Uniprot	O02667
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:0.156-10 ng/mL

Sensitivity:0.053 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:Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate ADORA3 in samples. An antibody specific for ADORA3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ADORA3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADORA3 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 ADORA3 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:The receptor is an adenosine receptor, but also denotes the human gene encoding it. Adenosine A3 receptors are G protein-coupled receptors that are involved in a variety of intracellular signaling pathways and physiological functions. It mediates a sustained cardioprotective function during cardiac ischemia, it is involved in the inhibition of neutrophil degranulation in neutrophil-mediated tissue injury, it has been implicated in both neuroprotective and neurodegenerative effects, and it may also mediate both cell proliferation and cell death. An adenosine A3 receptor agonist (CF-101) is in clinical trials for the treatment of rheumatoid arthritis. In a mouse model of infarction the A3 selective agonist CP-532,903 protected against myocardial ischemia and reperfusion injury.

Note: This product is for in vitro research use only