Rat Muscarinic acetylcholine receptor M2 (CHRM2) ELISA Kit

Catalog No: #EK11642

Package Size: #EK11642-1 48T #EK11642-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Rat Muscarinic acetylcholine receptor M2 (CHRM2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	FLJ43243; HM2; MGC120006; MGC120007; 7TM receptor|OTTHUMP00000208394|OTTHUMP00000208395|cholinergic receptor; muscarinic 2; isoform a|muscarinic M2 receptor|muscarinic acetylcholine receptor M2
Accession No.	P10980
Uniprot	P10980
GeneID	81645;
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:0.156-10 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:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate CHRM2 in samples. An antibody specific for CHRM2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCHRM2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CHRM2 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 CHRM2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:He is a muscarinic acetylcholine receptor.M2 muscarinic receptors act via a Gi type receptor, which causes a decrease in cAMP in the cell, generally leading to inhibitory-type effects.In addition, they modulate muscarinic potassium channels. In the heart, this contributes to a decreased heart rate.The M2 muscarinic receptors are located in the heart, where they act to slow the heart rate down to normal sinus rhythm after stimulatory actions of the sympathetic nervous system, by slowing the speed of depolarization. They also reduce contractile forces of the atrial cardiac muscle, and reduce conduction velocity of the atrioventricular node (AV node). However, they

have no effect on the contractile forces of the ventricular muscle.

Note: This product is for in vitro research use only