Mouse Free fatty acid receptor 2 (FFAR2) ELISA Kit

Catalog No: #EK11258

Package Size: #EK11258-1 48T #EK11258-2 96T

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Description

Product Name	Mouse Free fatty acid receptor 2 (FFAR2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	FFA2R; GPR43; G protein-coupled receptor 43|free fatty acid activated receptor 2
Accession No.	Q8VCK6
Uniprot	Q8VCK6
GeneID	233079;
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:0.055 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 FFAR2 in samples. An antibody specific for FFAR2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyFFAR2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for FFAR2 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 FFAR2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The physiologic responses to galanin (GAL) are mediated through specific membrane receptors called GALRs, which are members of the G protein-coupled receptor (GPCR) family. One product contained a segment showing 100% homology to a portion of the 3-prime region of the human CD22 gene . The authors identified a PAC clone in the sequence databases that overlaps this region and contains a novel putative GPCR gene, GPR43.

The intronless GPR43 gene is located approximately 77 kb downstream of the GPR42 gene . GPR43 encodes a deduced 330-amino acid protein with 7 transmembrane domains. The GPR43 protein shares 28% amino acid identity with GPR40and little similarity with GALRs.

Note: This product is for in vitro research use only