

Human G protein-coupled receptor 109A (GPR109A) ELISA Kit



Catalog No: #EK12026

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Package Size: #EK12026-1 48T #EK12026-2 96T

Description

Product Name	Human G protein-coupled receptor 109A (GPR109A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
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:Request Information

Sensitivity:Request Information

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 GPR109A in samples. An antibody specific for GPR109A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyGPR109A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for GPR109A 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 GPR109A bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**GPR109A is a high affinity receptor for nicotinic acid (niacin) and is a member of the nicotinic acid receptor family of G protein-coupled receptors (the other identified member being GPR109B).GPR109A is a Gi / Go protein-coupled receptor with high affinity for nicotinic acid.GPR109A is believed to be an important biomolecular target of niacin which is a widely prescribed drug for the treatment of dyslipidemia and to increase HDL cholesterol but whose therapeutic use is limited by flushing. In GPR109A knockout mice, the effects of niacin on both lipids and flushing is eliminated. Furthermore in arrestin beta 1 knockout mice, niacin's effect on flushing is greatly reduced while the lipid modifying effects are maintained.

Note: This product is for in vitro research use only