Mouse Orexigenic neuropeptide QRFP (QRFP) ELISA Kit

Catalog No: #EK7844

Package Size: #EK7844-1 48T #EK7844-2 96T

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

Description

Product Name	Mouse Orexigenic neuropeptide QRFP (QRFP) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	RP11-618A20.5; 26RFa; MGC119794; P518; P518 precursor protein|RF(Arg-Phe)amide family 26 amino acid peptide|RF(Arg-Phe)amide family 26 amino acid peptide (P518)
Accession No.	Q8CE23
Uniprot	Q8CE23
GeneID	227717;
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: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 QRFP in samples. An antibody specific for QRFP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyQRFP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for QRFP 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 QRFP bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:P518 functions as a high-affinity ligand of GPR103. Both GPR103 and P518 precursor mRNA exhibited highest expression in brain.The 43-amino acid QRFP peptide, a longer form of the P518 peptide is necessary to exhibit full agonistic activity with GPR103. Intravenous administration QRFP caused release of aldosterone, suggesting that QRFP and GPR103 regulate adrenal function.The deduced 126-amino acid protein contains a putative N-terminal 22-amino acid signal peptide and no transmembrane domain, suggesting that the protein or cleavage products can be secreted. The 26-amino acid P518 peptide sequence is located at the C terminus of the precursor protein. In peripheral tissues, P518 precursor mRNA was detected in prostate, testis, colon, thyroid, parathyroid, coronary artery, and bladder.

Note: This product is for in vitro research use only