

Human Neuropeptide Y receptor type 4 (PPYR1) ELISA Kit



Catalog No: #EK11421

Orders: order@signalwayantibody.com

Package Size: #EK11421-1 48T #EK11421-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Neuropeptide Y receptor type 4 (PPYR1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MGC116897; NPY4-R; NPY4R; PP1; Y4; OTTHUMP0000019520
Accession No.	P50391
Uniprot	P50391
GeneID	100996758;5540;
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:24.69-2000 pg/mL

Sensitivity:8.39 pg/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 PPYR1 in samples. An antibody specific for PPYR1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPPYR1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PPYR1 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 PPYR1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Pancreatic polypeptide (PP), neuropeptide Y (NPY), and peptide YY (PYY) are related 36-amino acid hormones. A number of structurally related receptors for these peptides have been isolated. Bard et al. (1995) used the rat Y1 receptor (NPY1R) as a probe to clone a novel receptor, PPYR1 (termed Y4 by them), from a human genomic DNA library. PPYR1 encodes a predicted 375-amino acid polypeptide having highest homology to the Y1 receptor gene (42% amino acid identity). Using RT-PCR, they showed that the PPYR1 receptor is expressed in several human tissues, including brain, coronary artery, and ileum.Bard et al. (1995) expressed the PPYR1 gene in COS-7 cells and performed a hormone-binding assay which showed that the PPYR1 receptor binds PP, PYY, and NPY hormones.

Note: This product is for in vitro research use only