

Rat Period circadian protein homolog 2 (PER2) ELISA Kit

Catalog No: #EK8579

Package Size: #EK8579-1 48T #EK8579-2 96T

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Description

Product Name	Rat Period circadian protein homolog 2 (PER2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	FASPS; KIAA0347; period 2 period circadian protein 2
Accession No.	Q9Z301
Uniprot	Q9Z301
GeneID	63840;
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:0.312-20 ng/mL

Sensitivity:0.101 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 PER2 in samples. An antibody specific for PER2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPER2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PER2 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 PER2 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:PER2 is a member of the Period family of genes and is expressed in a circadian pattern in the suprachiasmatic nucleus, the primary circadian pacemaker in the mammalian brain. Genes in this family encode components of the circadian rhythms of locomotor activity, metabolism, and behavior. Circadian expression in the suprachiasmatic nucleus continues in constant darkness, and a shift in the light/dark cycle evokes a proportional shift of gene expression in the suprachiasmatic nucleus. The specific function of this gene is not yet known. A new genetic test from a cheek swab can use Per2 expression levels to tell whether a person is an early morning person or a "night owl". It has also been shown that Per2 and Bmal1 work in opposition to each other.

Note: This product is for in vitro research use only