

Rat Urotensin-2 (UTS2) ELISA Kit

Catalog No: #EK5922



Package Size: #EK5922-1 48T #EK5922-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Rat Urotensin-2 (UTS2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	PRO1068; U-II; UCN2; UII;
Accession No.	Q9QZQ4
Uniprot	Q9QZQ4
GeneID	29180;
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:0.625-40 ng/mL

Sensitivity:0.156 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 UTS2 in samples. An antibody specific for UTS2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyUTS2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for UTS2 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 UTS2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**A novel peptide, UII-related peptide (URP), from the extract of the rat brain as the sole immunoreactive substance to anti-UII antibody. cDNAs encoding rat, mouse, and human precursor proteins for URP were cloned and revealed that the sequences of mouse and human URP peptides are the same as that for rat URP. Prepro-URP gene is expressed in several rat tissues such as those of the thymus, spleen, testis, and spinal cord, although with lower levels than the prepro-UII gene. In the human, the prepro-URP gene is expressed comparably to prepro-UII in several tissues except the spinal cord. URP was found to bind and activate the human or rat UII receptors (GPR14) and showed a hypotensive effect when administered to anesthetized rats. URP is the endogenous and functional ligand for UII receptor in the rat and mouse, and possibly in the human.

Note: This product is for in vitro research use only