Human Nephronectin (NPNT) ELISA Kit

Catalog No: #EK11197

Package Size: #EK11197-1 48T #EK11197-2 96T

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

Description

Product Name	Human Nephronectin (NPNT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	EGFL6L; POEM;
Accession No.	Q6UXI9
Uniprot	Q6UXI9
GeneID	255743;
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:0.156-10 ng/mL

Sensitivity:0.054 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 NPNT in samples. An antibody specific for NPNT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyNPNT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for NPNT 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 NPNT bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Nephronectin contains 561 amino acids. In situ hybridization detected nephronectin in the developing mouse kidney and in several other tissues and organs. Expression appeared particularly prominent at epithelial-mesenchymal interfaces in tissues undergoing morphogenesis.

The deduced 565- and 582-amino acid proteins have calculated molecular masses of 61.9 and 64.0 kD, respectively. Both proteins contain an N-terminal signal sequence, followed by 5 EGF domains, and a C-terminal MAM domain. They also contain an RGD integrin-binding site, a potential glycosylation site, and a potential tyrosine phosphorylation site. EGF repeats 2, 4, and 5 contain Ca(2+)-binding EGF domains. In the longer variant, the 17 additional amino acids are inserted N-terminal to the first EGF domain.

Note: This product is for in vitro research use only