Pig Secreted phosphoprotein 24 (SPP2) ELISA Kit

Catalog No: #EK6605

Package Size: #EK6605-1 48T #EK6605-2 96T

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

Description

Product Name	Pig Secreted phosphoprotein 24 (SPP2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Pig (Sus scrofa; Porcine)
Other Names	SPP24; OTTHUMP00000065382|secreted phosphoprotein 24
Accession No.	Q711S8
Uniprot	Q711S8
GeneID	396669;
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:0.063 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 SPP2 in samples. An antibody specific for SPP2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySPP2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SPP2 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 SPP2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Sphingosine-1-phosphate (S1P) is a bioactive sphingolipid metabolite that regulates diverse biologic processes. SGPP2 catalyzes the degradation of S1P.The deduced 399-amino acid protein has a calculated molecular mass of 44.7 kD and shares 39.3% amino acid identity with SGPP1. SGPP2 has an N-terminal hydrophobic region, 3 conserved phosphatase-family motifs, and is predicted to be an integral membrane protein with as many as 9 membrane-spanning segments. Immunofluorescence microscopy showed a reticular staining pattern in the perinuclear and cytosolic regions of HEK293 cells, and SGPP2 colocalized with an endoplasmic reticulum antibody. Northern blot analysis of human tissues detected a 5.1-kb transcript with high expression in kidney and heart, followed by brain, colon, lung, and small intestine.

Note: This product is for in vitro research use only