

Rat Spondin-1 (SPON1) ELISA Kit

Catalog No: #EK6588



Package Size: #EK6588-1 48T #EK6588-2 96T

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Description

Product Name	Rat Spondin-1 (SPON1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	KIAA0762; MGC10724; f-spondin; VSGP/F-spondin spondin 1; (f-spondin) extracellular matrix protein
Accession No.	P35446
Uniprot	P35446
GeneID	64456;
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:78-5000 pg/mL

Sensitivity:33 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 SPON1 in samples. An antibody specific for SPON1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySPON1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SPON1 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 SPON1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Spondin-1 is a protein contains 807 aminoacids and is structurally composed of six thrombospondin domains, one reelin domain, and one spondin domain.The deduced 624-amino acid partial SPON1 protein shares 96.8% amino acid sequence identity with the rat F-spondin precursor across 624 residues.SPON1 expression in lung, lower expression in brain, heart, kidney, liver, and testis, and lowest expression in pancreas, skeletal muscle, and ovary; no expression was found in spleen. In vitro binding assays using mutated human proteins confirmed that SPON1 specifically bound to the central APP domain (CAPPD). SPON1 inhibited APP cleavage by BACE1, the primary beta-secretase involved in APP processing. Binding also impaired APP- and FE65-dependent transactivation of the chromosome remodeling factor TIP60 .

Note: This product is for in vitro research use only