

Rat Thrombospondin 1 (TSP-1) ELISA Kit

Catalog No: #EK5982



Package Size: #EK5982-1 48T #EK5982-2 96T

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Description

Product Name	Rat Thrombospondin 1 (TSP-1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
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:7.8-500 pg/mL

Sensitivity:3.6 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 TSP-1 in samples. An antibody specific for TSP-1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTSP-1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TSP-1 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 TSP-1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**TSPAN1 belongs to the large family of tetraspanins, so named because they contain 4 transmembrane domains. Tetraspanins are frequently expressed at the cell surface in association with each other and with other molecules, such as integrins, and they function to regulate cell adhesion, migration, proliferation, and differentiation.

The deduced 242-amino acid protein contains 4 transmembrane domains and other features characteristic of tetraspanins, including conservation of charged residues in or near the transmembrane domains, similar to ion channels, and of 4 cysteines in the second extracellular domain. EST database analysis suggested that TSPAN2 is expressed in colon, endometrium, pancreas, normal and neoplastic prostate, and pregnant uterus.

Note: This product is for in vitro research use only