

## Human Tetraspanin-1 (TSPAN1) ELISA Kit

Catalog No: #EK11349



Package Size: #EK11349-1 48T #EK11349-2 96T

Orders: order@signalwayantibody.com

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## Description

Product Name	Human Tetraspanin-1 (TSPAN1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	NET1; TM4C; TM4SF; OTTHUMP0000008900 tetraspan 1
Accession No.	O60635
Uniprot	O60635
GeneID	10103;
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:0.156-10 ng/mL

Sensitivity:0.074 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: Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate TSPAN1 in samples. An antibody specific for TSPAN1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TSPAN1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TSPAN1 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 TSPAN1 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.

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Note: This product is for in vitro research use only