Human Tissue Polypeptide Antigen (TPA) ELISA Kit

Catalog No: #EK6040

Package Size: #EK6040-1 48T #EK6040-2 96T

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

Description

Product Name	Human Tissue Polypeptide Antigen (TPA) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
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:78.12-5000 pg/mL

Sensitivity:29 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 TPA in samples. An antibody specific for TPA has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTPA present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TPA 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 TPA bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Tissue polypeptide antigen (TPA) is a circulating complex of polypeptide fragments from cytokeratins 8, 18 and 19. It is a tumour-related protein. TPA is an indicator of higher cell proliferation. One function of TP53 is the suppression of apoptosis. TP53 mutations are frequently correlated with tumour development in bladder cancer. One function of TP53 is the suppression of apoptosis. TPA is an indicator of higher cell proliferation.A series of tumor markers were found to be within normal limits except TPA, which was elevated three times above the upper normal limit. The presence of another primary tumor was excluded by history taking, physical examination, blood tests, and various radiological and nuclear imaging. Following two courses of chemotherapy, the patients skin condition improved, and her serum TPA level returned to normal. These findings suggest that serum TPA may prove to be clinically significant in a subset of patients with mycosis fungoides.

Note: This product is for in vitro research use only