Datasheet for ABIN2859318

TNC ELISA Kit

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Overview

Quantity:	96 tests
Target:	TNC
Binding Specificity:	AA 23-625
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	93.7-6000 pg/mL
Minimum Detection Limit:	93.7 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Tenascin-C/TNC
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: G23-P625
Specificity:	NSO, G23-P625
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL

Product Details

Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

Target:	TNC
Alternative Name:	TNC (TNC Products)
Background:	Protein Function: Extracellular matrix protein implicated in guidance of migrating neurons as well as axons during development, synaptic plasticity as well as neuronal regeneration. Promotes neurite outgrowth from cortical neurons grown on a monolayer of astrocytes. Ligand for integrins alpha-8/beta-1, alpha-9/beta-1, alpha-V/beta-3 and alpha-V/beta-6. Background: Tenascin C (TN-C) is a glycoprotein that in humans is encoded by the TNC gene. It is expressed in the extracellular matrix of various tissues during development, disease or injury, and in restricted neurogenic areas of the central nervous system. Tenascin-C is the founding member of the gene family (Tenascin). In the embryo it is made by migrating cells like the neural crest, it is also abundant in developing tendons, bone and cartilage. TN-C clearly plays a role in cell signaling as evidenced by its ability to be induced during events such as trauma, inflammation, or cancer development. Also, TN-C is important in regulating cell proliferation and migration, especially during developmental differentiation and wound healing. Synonyms: Tenascin,TN,Cytotactin,GMEM,GP 150-225,Glioma-associated-extracellular matrix antigen,Hexabrachion,JI,Myotendinous antigen,Neuronectin,Tenascin-C,TN-C,TNC,HXB, Full Gene Name: Tenascin Cellular Localisation: Secreted, extracellular space, extracellular matrix.
Gene ID:	3371
UniProt:	P24821
Pathways:	Regulation of Muscle Cell Differentiation, Regulation of Cell Size, Skeletal Muscle Fiber Development

Application Details

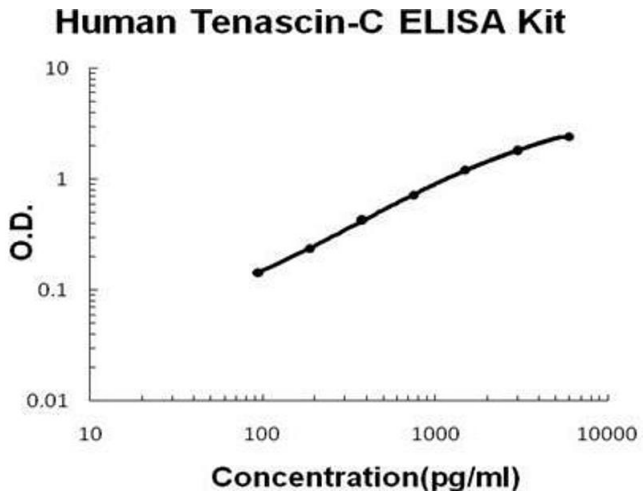
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Plate:	Pre-coated

Application Details

Protocol:	human Tenascin-C ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Tenascin-C has been precoated onto 96-well plates. Standards(NSO,G23-P625) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Tenascin-C is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Tenascin-C amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 6000pg/mL, 3000pg/mL, 1500pg/mL, 750pg/mL, 375pg/mL, 187.5pg/mL, 93.7pg/m human Tenascin-C standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum, plasma(heparin, EDTA) or urine to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human Tenascin-C standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 843, Standard deviation: 43.8, CV(%): 5.2 • Sample 2: n=16, Mean(pg/ml): 2186, Standard deviation: 118.0, CV(%): 5.4 • Sample 3: n=16, Mean(pg/ml): 3627, Standard deviation: 192.7, CV(%): 5.9, • Sample 1: n=24, Mean(pg/ml): 924, Standard deviation: 53.5, CV(%): 5.8 • Sample 2: n=24, Mean(pg/ml): 2570, Standard deviation: 159.3, CV(%): 6.2 • Sample 3: n=24, Mean(pg/ml): 4085, Standard deviation: 249.1, CV(%): 6.1
Restrictions:	For Research Use only

Handling

Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



ELISA

Image 1. Human Tenascin-C PicoKine ELISA Kit standard curve