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Datasheet for ABIN2859245 TGFBR3 ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	TGFBR3
Binding Specificity:	AA 21-781
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10.000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human TGFBR3
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO
	Immunogen sequence: G21-D781
Specificity:	NSO, G21-D781
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL

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Product Details

Material not included:Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipettetips. 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

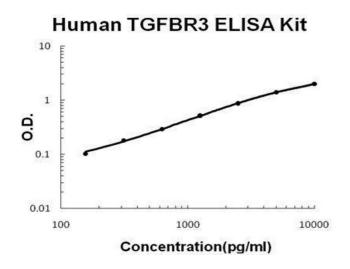
Target Details

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Target:	TGFBR3
Alternative Name:	TGFBR3 (TGFBR3 Products)
Background:	Protein Function: Binds to TGF-beta. Could be involved in capturing and retaining TGF-beta for
	presentation to the signaling receptors.
	Background: Betaglycan also known as Transforming growth factor beta receptor III (TGFBR3)
	is a cell- surfacechondroitin sulfate / heparan sulfate proteoglycan >300 kDa in molecular
	weight. Betaglycan binds to various members of the TGF-beta superfamily of ligands via its
	core protein, and bFGF via its heparan sulfate chains. It is not involved directly in TGF-beta
	signal transduction but by binding to various member of the TGF-beta superfamily at the cell
	surface it acts as a reservoir of ligand for TGF-beta receptors. By cDNA array and
	immunohistochemistry analyses, it is found that TGFBR3 expression is lost in most breast
	cancers examined in association with loss of heterozygosity of the TGFBR3 locus. TGFBR3
	expression decreased during breast cancer progression, and low levels predicted decreased
	recurrence-free survival in patients. Loss of TGFBR3 through allelic imbalance is a frequent
	genetic event during breast cancer development that increases metastatic potential. Also,
	TGFBR3 can localize transformation in the heart and play an essential, nonredundant role in
	TGF-beta signaling.
	Synonyms: Transforming growth factor beta receptor type 3,TGF-beta receptor type 3,TGFR-
	3,Betaglycan,Transforming growth factor beta receptor III,TGF-beta receptor type III,TGFBR3,
	Full Gene Name: Transforming growth factor beta receptor type 3
	Cellular Localisation: Secreted. Secreted, extracellular space. Cell membrane, Single-pass type
	membrane protein . Exists both as a membrane-bound form and as soluble form in serum and
	in the extracellular matrix.
Gene ID:	7049
UniProt:	Q03167

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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
Protocol:	human TGFBR3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from mouse specific for TGFBR3 has been
	precoated onto 96-well plates. Standards(NSO,G21-D781) and test samples are added to the
	wells, a biotinylated detection polyclonal antibody from goat specific for TGFBR3 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 TGFBR3 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL,
	312pg/mL, 156pg/mL human TGFBR3 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 or plasma(heparin , EDTA) to
	each empty well. See "Sample Dilution Guideline" above for details. It is recommended that
	each human TGFBR3 standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(ng/ml): 1.15, Standard deviation: 0.051, CV(%): 4.5
	• Sample 2: n=16, Mean(ng/ml): 2.52, Standard deviation: 0.108, CV(%): 4.3
	 Sample 3: n=16, Mean(ng/ml): 5.81, Standard deviation: 0.284, CV(%): 4.9, Sumple 1: n = 0.4 Mean (ng/ml): 1.60, Standard deviation: 0.100, OV(%): 6.7
	 Sample 1: n=24, Mean(ng/ml): 1.63, Standard deviation: 0.109, CV(%): 6.7 Sample 2: n=24, Mean(ng/ml): 2.87, Standard deviation: 0.169, CV(%): 5.9
	 Sample 2: n=24, Mean(ng/ml): 5.66, Standard deviation: 0.401, CV(%): 7.1
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

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ELISA

Image 1. Human TGFBR3 PicoKine ELISA Kit standard curve

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