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Datasheet for KOA0837

Human TGFBR3 ELISA Kit

Overview

Description:	Human TGFBR3 AccuSignal ELISA Kit - KOA0837
Item No.:	KOA0837
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	156 pg/ml - 10,000 pg/ml

Product Details

Background:	Betaglycan also known as Transforming growth factor beta receptor III (TGFBR3), is a cell-surface chondroitin 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:	Beta glycan, Betaglycan, Betaglycan proteoglycan, BGCAN, TGBR3_HUMAN, TGF beta receptor type 3, TGF beta receptor type III, TGF-beta receptor type 3, TGF-beta receptor type III, TGFB R3, TGFBR 3, TGFBR3, TGFR 3, TGFR-3, TGFR3, Transforming growth factor beta receptor III, Transforming growth factor beta receptor III betaglycan 300kDa, Transforming growth factor beta receptor type 3
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10,000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	TGFBR3
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: G21-D781
Purity/Specificity:	Natural and recombinant human TGFBR3. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q03167 • NCBI - NP_001182612.1 • GeneID - 7049 • KOA0837 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml 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 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin , EDTA) to each empty well. It is recommended that each human TGFBR3 standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

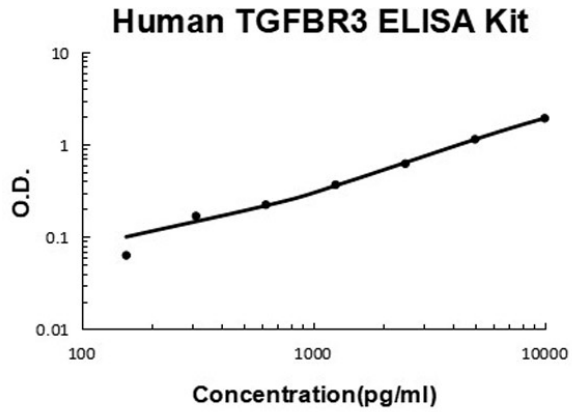
Formulation

Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiration:	See kit insert for complete instructions.

Images



ELISA
Human TGFBR3 ELISA Kit standard curve.

Disclaimer

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