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TGFBR3 ELISA Kit



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Quantity:	1 kit
Target:	TGFBR3
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen	
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Characteristics:	Synonyms: Beta glycan, Betaglycan, Betaglycan proteoglycan, BGCAN, TGBR3_HUMAN, TGF	

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 300 kDa, Transforming growth factor beta receptor type 3

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.

Gene Name: TGFBR3

Production: Natural and recombinant human TGFBR3. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: G21-D781

Target Details

Target:	TGFBR3
Alternative Name:	TGFBR3 (TGFBR3 Products)
Gene ID:	7049
NCBI Accession:	NP_001182612
UniProt:	Q03167

Application Details

Application Notes:

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. 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. It is recommended that each human TGFBR3 standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 156pg/mL-10,000pg/mL

Sample Volume: 100 µL

Application Details

Plate:	Pre-coated
Restrictions:	For Research Use only
Handling	
Storage:	RT,4 °C,-20 °C
Storage Comment:	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.