

Datasheet for KOA0837**Human TGFR3 ELISA Kit****Overview**

Description:	Human TGFR3 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 (TGFR3), 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 TGFR3 expression is lost in most breast cancers examined in association with loss of heterozygosity of the TGFR3 locus. TGFR3 expression decreased during breast cancer progression, and low levels predicted decreased recurrence-free survival in patients. Loss of TGFR3 through allelic imbalance is a frequent genetic event during breast cancer development that increases metastatic potential. Also, TGFR3 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, TGFR R3, TGFR 3, TGFR3, 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:	TGFB3
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: G21-D781
Purity/Specificity:	Natural and recombinant human TGFB3. 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 TGFB3 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 TGFB3 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.

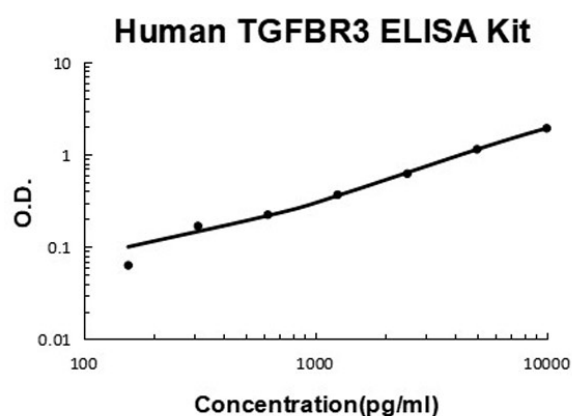
Formulation

Anticoagulant:	Heparin Sodium
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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 TGFB β 3 ELISA Kit standard curve.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.