

Human TGFR3 PicoKine ELISA Kit | TGFR3 elisa kit

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CATALOG #
AAA46174

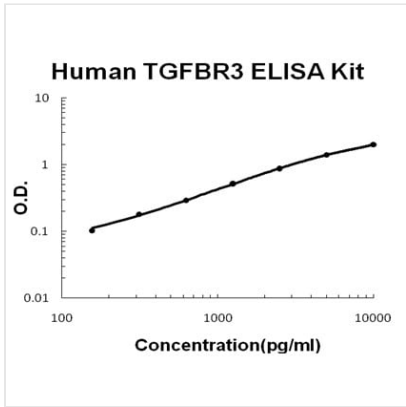
REACTIVITY
Human

PRODUCT SYNONYMS

TGFR3 PicoKine; Human TGFR3 PicoKine ELISA Kit; Transforming growth factor beta receptor type 3; 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; 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 III; TGFR3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human TGFR3
Sequence Length	850
Assay Range	156pg/ml-10,000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of human TGFR3 in cell culture supernates, serum and plasma(heparin, EDTA).
Immunogen	NSO, G21-D781
Assay Procedure Step 1	Aliquot 0.1ml per well of the 10,000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human TGFR3 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 TGFR3 standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(ng/ml) 1.15 2.52 5.81 1.63 2.87 5.66 Standard deviation 0.051 0.108 0.284 0.109 0.169 0.401 CV(%) 4.5 4.3 4.9 6.7 5.9 7.1
Sample Data	Concentration(pg/ml) 0 156 312 625 1250 2500 5000 10,000 O.D. 0.051 0.102 0.181 0.292 0.519 0.871 1.393 1.982
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human TGFB3 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for TGFB3 elisa kit	Principle of the assay: Human TGFB3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TGFB3 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 TGFB3 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 TGFB3 amount of sample captured in plate. Background: Betaglycan also known as Transforming growth factor beta receptor III (TGFB3), 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 TGFB3 expression is lost in most breast cancers examined in association with loss of heterozygosity of the TGFB3 locus. TGFB3 expression decreased during breast cancer progression, and low levels predicted decreased recurrence-free survival in patients. Loss of TGFB3 through allelic imbalance is a frequent genetic event during breast cancer development that increases metastatic potential. Also, TGFB3 can localize transformation in the heart and play an essential, nonredundant role in TGF-beta signaling.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	307574691
NCBI GeneID	7049
NCBI Accession #	NP_001182612.1
NCBI GenBank Nucleotide #	NM_001195683.1
UniProt Accession #	Q03167; Q5T2T4; Q5U731; Q9UGI2; A0AUW8; A8K5N0; B9EG88
Molecular Weight	93,428 Da
NCBI Official Full Name	transforming growth factor beta receptor type 3 isoform b
NCBI Official Synonym Full Names	transforming growth factor beta receptor 3
NCBI Official Symbol	TGFB3
NCBI Official Synonym Symbols	BGCAN; betaglycan
NCBI Protein Information	transforming growth factor beta receptor type 3

UniProt Protein Name	Transforming growth factor beta receptor type 3
UniProt Gene Name	TGFBR3
UniProt Synonym Gene Names	TGF-beta receptor type 3; TGFR-3; TGF-beta receptor type III
UniProt Entry Name	TGBR3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/tgfr3-picokine/46174>