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Datasheet for ABIN1889330 TGFB2 ELISA Kit

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Overview

Quantity:	96 tests
Target:	TGFB2
Binding Specificity:	AA 303-414
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:Sandwich High Sensitivity ELISA kit for Quantitative Detection of activated Human TGF-Brand:PicoKine™Sample Type:Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Plasma (citrate)Analytical Method:QuantitativeDetection Method:ColorimetricImmunogen:Expression system for standard: NSO Immunogen sequence: A303-S414Specificity:Expression system for standard: NSO Immunogen sequence: A303-S414Cross-Reactivity (Details):There is no detectable cross-reactivity with other relevant proteins.		
Sample Type:Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Plasma (citrate)Analytical Method:QuantitativeDetection Method:ColorimetricImmunogen:Expression system for standard: NSO Immunogen sequence: A303-S414Specificity:Expression system for standard: NSO Immunogen sequence: A303-S414	Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of activated Human TGF-beta 2
Analytical Method:QuantitativeDetection Method:ColorimetricImmunogen:Expression system for standard: NSO Immunogen sequence: A303-S414Specificity:Expression system for standard: NSO Immunogen sequence: A303-S414	Brand:	PicoKine™
Detection Method:ColorimetricImmunogen:Expression system for standard: NSO Immunogen sequence: A303-S414Specificity:Expression system for standard: NSO Immunogen sequence: A303-S414	Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Plasma (citrate)
Immunogen: Expression system for standard: NSO Immunogen sequence: A303-S414 Specificity: Expression system for standard: NSO Immunogen sequence: A303-S414	Analytical Method:	Quantitative
Immunogen sequence: A303-S414 Specificity: Expression system for standard: NSO Immunogen sequence: A303-S414	Detection Method:	Colorimetric
Specificity: Expression system for standard: NSO Immunogen sequence: A303-S414	Immunogen:	Expression system for standard: NSO
Immunogen sequence: A303-S414		Immunogen sequence: A303-S414
	Specificity:	Expression system for standard: NSO
Cross-Reactivity (Details): There is no detectable cross-reactivity with other relevant proteins.		Immunogen sequence: A303-S414
	Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details	
Predicted Reactivity:	Bovine,Canine,Chicken,Horse,Monkey,Rabbit
Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. 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

Application Notes:

Target:	TGFB2
Alternative Name:	TGFB2 (TGFB2 Products)
Background:	Protein Function: TGF-beta 2 has suppressive effects on interleukin-2 dependent T-cell growth
	Background: Transforming growth factor-beta 2(TGF-beta 2) is a secreted protein known as a
	cytokine that performs many cellular functions and has a vital role during embryonic
	development. This gene is mapped to 1q41. It is an extracellular glycosylated protein. It is
	known to suppress the effects of interleukin dependent T-cell tumors. TGF-beta 2 is present at
	elevated levels in the aqueous humor of patients with primary open angle glaucoma(POAG).
	Studies have shown that TGF-beta 2 influences cultured trabecular meshwork cells, and it
	reduced outflow facility when perfused into cultured human anterior segments. In POAG,
	elevated expression of Gremlin by TM cells inhibited BMP4 antagonism of TGF-beta 2 and led
	to increased extracellular matrix deposition and elevated IOP.
	Synonyms: Transforming growth factor beta-2,TGF-beta-2,BSC-1 cell growth
	inhibitor,Cetermin,Glioblastoma-derived T-cell suppressor factor,G-TSF,Polyergin,Latency-
	associated peptide,LAP,TGFB2,
	Full Gene Name: Transforming growth factor beta-2
	Cellular Localisation: Secreted.
Gene ID:	7042
UniProt:	P61812
Pathways:	Cell-Cell Junction Organization, Production of Molecular Mediator of Immune Response,
	Protein targeting to Nucleus
Application Details	

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Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well

1.1	
	assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the TGF-beta family.
Plate:	Pre-coated
Protocol:	human TGF-beta 2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TGF-beta 2 has been
	precoated onto 96-well plates. Standards(NSO, A303-S414) and test samples are added to the
	wells, a biotinylated detection polyclonal antibody from goat specific for TGF-beta 2 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 TGF-beta 2 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL,
	62.5pg/mL, 31.2pg/mL human TGF-beta 2 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 activated human cell culture supernates, serum or plasma(heparin,
	EDTA, citrate) to each empty well. See "Sample Dilution Guideline" above for details. It is
	recommended that each human TGF-beta 2 standard solution and each sample be measured
	in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 221, Standard deviation: 13.7, CV(%): 6.2
	 Sample 2: n=16, Mean(pg/ml): 564, Standard deviation: 13.6, CV(%): 5.6
	 Sample 3: n=16, Mean(pg/ml): 1145, Standard deviation: 46.9, CV(%): 4.1, Sample 1: n=24, Mean(ng/ml): 226, Standard deviation: 15.9, OV(%): 6.7.
	 Sample 1: n=24, Mean(pg/ml): 236, Standard deviation: 15.8, CV(%): 6.7 Sample 2: n=24, Mean(pg/ml): 576, Standard deviation: 33.41, CV(%): 5.8
	 Sample 2: n 2:, Mean(pg/ml): 07, Standard deviation: 60: 11, 67(%): 6.6 Sample 3: n=24, Mean(pg/ml): 1095, Standard deviation: 70.1, CV(%): 6.4
Restrictions:	For Research Use only
Llondling	
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

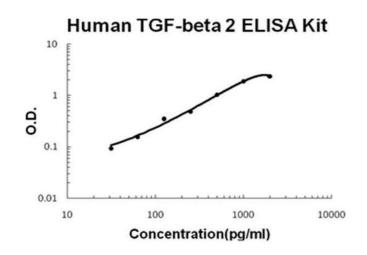
Application Details

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Song, Zhang, Zhang, Du, Guo, Kuang, Wang, Wu, Zou, Zou, Lv, Wang: "A microfluidic device for studying chemotaxis mechanism of bacterial cancer targeting." in: **Scientific reports**, Vol. 8, Issue 1, pp. 6394, (2018) (PubMed).

Li, Liu, Shen, Wang, Chen, Xu, Wen: "MicroRNA-26a modulates transforming growth factor beta-1-induced proliferation in human fetal lung fibroblasts." in: **Biochemical and biophysical research communications**, Vol. 454, Issue 4, pp. 512-517, (2014) (PubMed).

Images



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Image 1. Human TGF-beta 2 PicoKine ELISA Kit standard curve