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TGFB2 ELISA Kit





Publication



Overview

Quantity:	96 tests
Target:	TGFB2
Binding Specificity:	AA 303-414
Reactivity:	Mouse
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 Mouse TGF-beta 2
	Salarian ing., Salaria, Eliaria, inacia, qualitative betastion of detivated modes for beta 2
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Plasma (citrate)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO
	Immunogen sequence: A303-S414
Specificity:	Expression system for standard: NSO
	Immunogen sequence: A303-S414
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

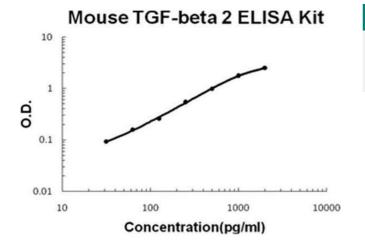
Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl
Target Details	
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,Latency-associated
	peptide,LAP,Tgfb2,
	Full Gene Name: Transforming growth factor beta-2
	Cellular Localisation: Secreted.
Gene ID:	21808
UniProt:	P27090
Pathways:	Cell-Cell Junction Organization, Production of Molecular Mediator of Immune Response,
	Protein targeting to Nucleus
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.
Plate:	Pre-coated

Application Details

Protocol:	mouse TGF-beta 2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from rat 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 mouse 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 mouse 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 mouse 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 mouse TGF-beta 2 standard solution and each sample be measured
	in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 242, Standard deviation: 10.9, CV(%): 4.5
	Sample 2: n=16, Mean(pg/ml): 524, Standard deviation: 28.3, CV(%): 5.4
	• Sample 3: n=16, Mean(pg/ml): 1096, Standard deviation: 73.43, CV(%): 6.7,
	 Sample 1: n=24, Mean(pg/ml): 253, Standard deviation: 13, CV(%): 5.1 Sample 2: n=24, Mean(pg/ml): 487, Standard deviation: 35.55, CV(%): 7.3
	Sample 3: n=24, Mean(pg/ml): 1295, Standard deviation: 90.65, CV(%): 7
Restrictions:	For Research Use only
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
Publications	
Product cited in:	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



ELISA

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