

Datasheet for KOA0307**Human TGF beta 1 ELISA Kit****Overview**

Description:	Human TGF beta 1 AccuSignal ELISA Kit - KOA0307
Item No.:	KOA0307
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human, Bovine, Dog, Monkey, Rabbit
Range:	15.6 pg/ml - 1000 pg/ml

Product Details

Background:	Transforming growth factor-beta1 (TGF-beta1) is a multifunctional peptide that controls proliferation, differentiation, and other functions in many cell types. Many cells synthesize TGF-beta and essentially all of them have specific receptors for this peptide. TGF-beta regulates the actions of many other peptide growth factors and determines a positive or negative direction of their effects. TGF-beta1 is known for its potent and diverse biological effects, including immune regulation, and cell growth and differentiation. TGF-beta1 is also an important mediator of bone remodeling. TGF-beta1, a potent keratinocyte growth inhibitor, has been shown to be overexpressed in keratinocytes in certain inflammatory skin diseases and has been thought to counteract the effects of other growth factors at the site of inflammation. TGF-beta1, a multifunctional cytokine with fibrogenic properties, has been implicated in the pathogenesis of the vascular and target organ complications of hypertension. TGF-beta1 may also regulate blood pressure via stimulation of endothelin-1 and/or renin secretion. TGF-beta1 is secreted as a latent form, which consists of its mature form and a latency-associated peptide (beta1-LAP) in either the presence or the absence of additional latent TGF-beta1-binding protein. The standard product used in this kit is recombinant TGF beta1 with the molecular mass of 25KDa.
Synonyms:	Camurati-Engelmann disease, CED, DPD1, LAP, Latency-associated peptide, TGF beta 1 protein, TGF-beta-1, TGFB, tgfb1, TGFB1_HUMAN, TGFbeta, Transforming growth factor beta 1
Detection Kit Type:	ELISA Kit
Detection Range:	15.6 pg/ml - 1000 pg/ml
Sensitivity:	<1 pg/ml

Target Details

Gene Name:	TGFB1
Reactivity:	Human, Bovine, Dog, Monkey, Rabbit
Immunogen:	Expression system for standard: CHO; Immunogen sequence: A279-S390
Purity/Specificity:	Natural and recombinant human TGF beta1. Predicted reactivity with bovine, canine, monkey, and rabbit. No know cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P01137 • NCBI - NP_000651.3 • GeneID - 7040 • KOA0307 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml, 15.6pg/ml human TGF beta 1 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 activated human in cell culture supernates, serum, plasma (EDTA) or urine to each empty well. It is recommended that each human TGF beta 1 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.
Other:	DOE: 2-8° C- 01/01/2021 -20° C- 07/01/2021

Formulation

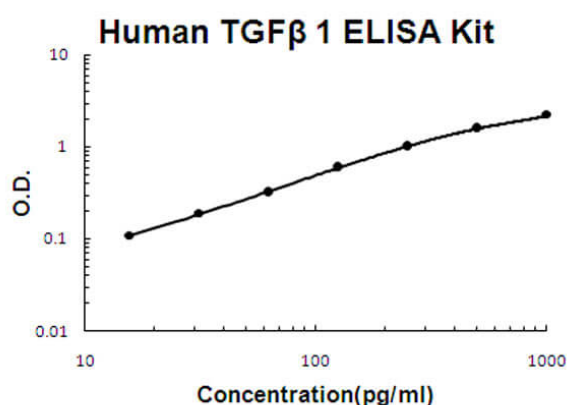
Concentration:	1 Kit
Anticoagulant:	Sodium EDTA

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 TGF beta 1 AccuSignal ELISA Kit standard curve.
Assay Range: 15.6pg/ml-1000pg/ml. Sensitivity: <1pg/ml.

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.