

Datasheet for KOA0699**Human TGFBI - beta IG-H3 ELISA Kit****Overview**

Description:	Human TGFBI/beta IG-H3 AccuSignal ELISA Kit - KOA0699
Item No.:	KOA0699
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	62.5 pg/ml - 4000 pg/ml

Product Details

Background:	Transforming growth factor, beta-induced, 68kDa, also known as TGFBI (initially called BIGH3, BIG-H3), is a protein which in humans is encoded by the TGFBI gene. It is mapped to 5q31.1. This gene encodes an RGD-containing protein that binds to type I, II and IV collagens. The RGD motif is found in many extracellular matrix proteins modulating cell adhesion and serves as a ligand recognition sequence for several integrins. This protein plays a role in cell-collagen interactions and may be involved in endochondrial bone formation in cartilage. The protein is induced by transforming growth factor-beta and acts to inhibit cell adhesion.
Synonyms:	Beta ig-h3, beta-IG-H3, BIGH3, CDB1, CDG2, CDGG1, CSD, CSD1, CSD2, CSD3, EBMD, Kerato-epithelin, LCD1, RGD-CAP, RGD-containing collagen-associated protein, TGFBI, Transforming growth factor-beta-induced protein ig-h3
Detection Kit Type:	ELISA Kit
Detection Range:	62.5 pg/ml - 4000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	TGFBI
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: G24-H683
Purity/Specificity:	Natural and recombinant human TGFBI. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:	• UniProtKB - Q15582 • NCBI - NP_000349.1 • GeneID - 7045 • KOA0699 Protocol
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Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml human TGFBI 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 TGFBI 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:	Detection Range: 62.5 pg/ml - 4000 pg/ml DOE: @4°C 12/20/2024 @-20°C 06/20/2025

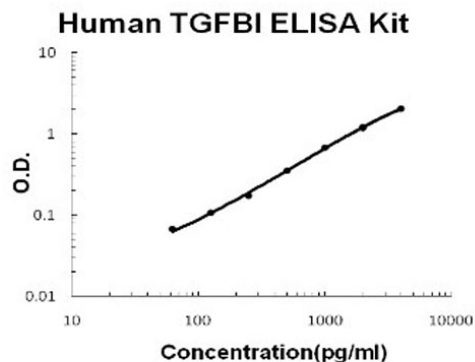
Formulation

Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

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 TGFBI/beta IG-H3 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.