

Datasheet for KOA0306**Human TGF alpha ELISA Kit****Overview**

Description:	Human TGF alpha AccuSignal ELISA Kit - KOA0306
Item No.:	KOA0306
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	15.6 pg/ml - 1000 pg/ml

Product Details

Background:	Transforming growth factor alpha(TGF-alpha) is upregulated in some human cancers. It is produced in macrophages, brain cells, and keratinocytes, and induces epithelial development. It is closely related to EGF, and can also bind to the EGF receptor with similar effects. TGFalpha stimulates neural cell proliferation in the adult injured brain. Transforming growth factor alpha gene(TGFA) maps to human chromosome 2 close to the breakpoint of the t(2;8) variant translocation in Burkitt lymphoma. Synthetic TGF-alpha was as active as murine epidermal growth factor in binding to the epidermal growth factor receptor and in stimulation of anchorage-dependent and of anchorage-independent growth of normal indicator cells in culture. Synthetic TGF-alpha stimulated plasminogen activator production in A 431 and HeLa cells; the stimulation was similar to that induced by epidermal growth factor. Furthermore, synthetic human TGF-alpha showed similar immunoreactivity when compared with rat TGF-alpha. Thus, the 50-amino acid TGF-alpha is likely to be the bioactive principle produced and secreted by tumor cell lines.
Synonyms:	EGF like TGF, ETGF, OTTHUMP00000203300, OTTHUMP00000203301, OTTHUMP00000203345, OTTHUMP00000204192, Protransforming growth factor alpha, RATTGFAA, TFGA, TGF A, TGF type 1, TGFA, Transforming growth factor alpha, Transforming growth factor alpha precursor, Wa1, Waved 1
Detection Kit Type:	ELISA Kit
Detection Range:	15.6 pg/ml - 1000 pg/ml
Sensitivity:	<1 pg/ml

Target Details

Gene Name:	TGFA
Reactivity:	Human
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: V40-A89
Purity/Specificity:	Natural and recombinant human TGF alpha. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P01135 • NCBI - NP_001093161.1 • GeneID - 7039 • KOA0306 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 alpha 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, plasma(heparin, EDTA) or milk to each empty well. It is recommended that each human TGF alpha 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.

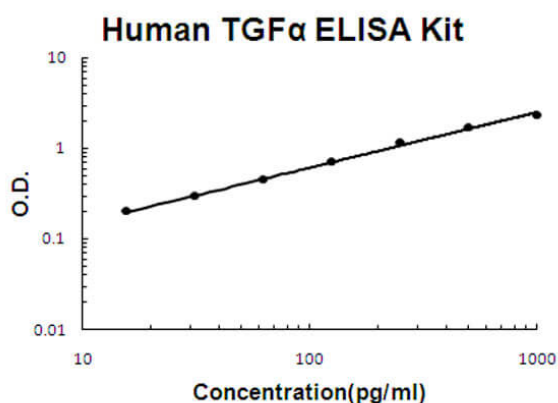
Formulation

Anticoagulant:	Heparin Sodium
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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 alpha 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.