

Datasheet for KOA0324**Human TRAIL ELISA Kit****Overview**

Description:	Human TRAIL AccuSignal ELISA Kit - KOA0324
Item No.:	KOA0324
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	15.6 pg/ml - 1000 pg/ml

Product Details**Background:**

In the field of cell biology, TNF-related apoptosis-inducing ligand (TRAIL), is a protein which functions as a ligand which induces the process of cell death called apoptosis. TRAIL has also been designated CD253 (cluster of differentiation 253). Tumor necrosis factor (TNF) family cytokines function as prominent mediators of immune regulation and the inflammatory response. Most TNF family cytokines are expressed as type II transmembrane proteins, with homology confined to approximately 150 C-terminal residues. The TNF ligands interact with a parallel family of receptors. TRAIL binds to the death receptors DR4 (TRAIL-R1) and DR5 (TRAIL-R2). The process of apoptosis is caspase-8-dependent. Caspase-8 activates downstream effector caspases including procaspase-3, -6, and -7, leading to activation of specific kinases. TRAIL also binds the receptors DcR1 and DcR2, which do not contain a cytoplasmic domain (DcR1) or contain a truncated death domain (DcR2). The standard product used in this kit is recombinant human TRAIL with the molecular mass of 21 kDa. It is expressed from the amino acids ectoderm T95--G28.

Synonyms:	Apo 2 ligand, APO2L, CD253, Protein TRAIL, TL2, TNF related apoptosis inducing ligand, Tumor necrosis factor ligand superfamily member 10
Detection Kit Type:	ELISA Kit
Detection Range:	15.6 pg/ml - 1000 pg/ml
Sensitivity:	<1 pg/ml

Target Details

Gene Name:	TNFSF10
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Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: T95-G281
Purity/Specificity:	Natural and recombinant human TRAIL. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P50591 • NCBI - NP_001177871.1 • GenelD - 8743 • KOA0324 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 TRAIL 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, cell lysates, serum, plasma(heparin, EDTA) or saliva to each empty well. It is recommended that each human TRAIL 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.

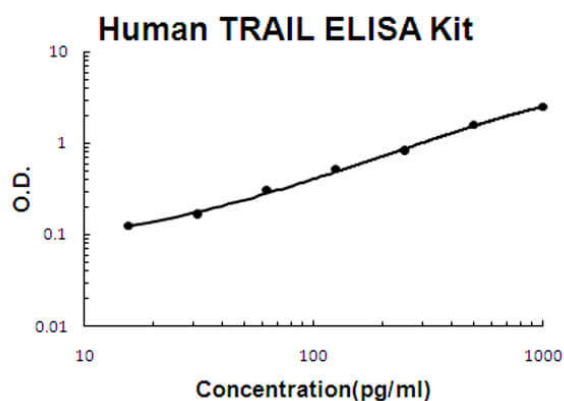
Formulation

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 TRAIL 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.