

Datasheet for KOA0320

Human TNFsR I ELISA Kit

Overview

Description:	Human TNFsR I AccuSignal ELISA Kit - KOA0320
Item No.:	KOA0320
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	7.8 pg/ml - 500 pg/ml

Product Details

Background:	TNFsRI (also known as Soluble tumor necrosis factor receptor 1) is a cytokine receptor that binds tumor necrosis factors(TNF). In contrast, the p60(TNFRSF1A) and p80(TNFRSF1B) TNFA receptors self-assemble through a distinct functional domain in the TNFR extracellular domain, termed the pre-ligand assembly domain(PLAD), in the absence of ligand. Deletion of the PLAD results in monomeric presentation of p60 or p80. Flow cytometric analysis showed that efficient TNFA binding depends on receptor self-assembly. They also found that other members of the TNF receptor superfamily, including the extracellular domains of TRAIL(TNFRSF10A), CD40, and FAS(TNFRSF6), all self-associate but do not interact with heterologous receptors. By Southern blot analysis of human/Chinese hamster somatic cell hybrid DNA, the TNFR1 gene was mapped to 12pter-cen. And by nonradioactive in situ hybridization that the type 1 receptor(the p55 TNF receptor) is encoded by a gene located on chromosome 12p13.2.
Synonyms:	CD120a, FPF, p55, p55 R, p60, p65, TBP1, TBPI, TNF R, TNF R I, TNF R55, TNF-R1, TNF-RI, TNFAR, TNFR I, TNFR1, TNFR55, TNFR60, TNFRI, TNFRSF1A, TNFR1A_HUMAN, Tumor necrosis factor alpha receptor, Tumor necrosis factor binding protein 1, Tumor necrosis factor receptor 1, Tumor necrosis factor receptor superfamily member 1A, Tumor necrosis factor receptor superfamily member 1A, membrane form, Tumor necrosis factor receptor type I, Tumor necrosis factor-binding protein 1
Detection Kit Type:	ELISA Kit
Detection Range:	7.8 pg/ml - 500 pg/ml
Sensitivity:	<1 pg/ml

Target Details

Gene Name:	TNFRSF1A
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: L30-T211
Purity/Specificity:	Natural and recombinant human TNFsR. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P19438 • NCBI - NP_001056.1 • GenelD - 7132 • KOA0320 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.3pg/ml, 15.6pg/ml, 7.8pg/ml human TNFsR 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, citrate) or urine to each empty well. We recommend that each human TNF s R standard solution and each sample is measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

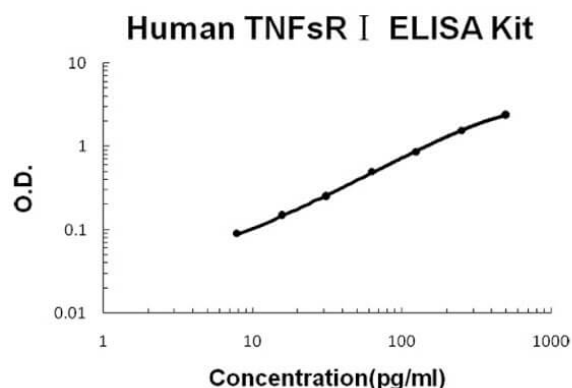
Formulation

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 TNFsR I AccuSignal ELISA Kit standard curve. Assay Range: 7.8pg/ml-500pg/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.