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Datasheet for KOA0508

Human TrkA ELISA Kit

Overview

Description:	Human TrkA AccuSignal ELISA Kit - KOA0508
Item No.:	KOA0508
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	156 pg/ml - 10000 pg/ml

Product Details

Background:	Tropomyosin receptor kinase A(TrkA) are efficacious in attenuating skeletal pain.1 TrkA mutants were able to activate signaling cascades and were even more efficient in promoting neurite outgrowth than the wild-type receptor.2 TrkA is part of a sub-family of protein kinases which includes TrkB and TrkC. Also, there are other neurotrophic factors structurally related to NGF: BDNF(for Brain-Derived Neurotrophic Factor), NT-3(for Neurotrophin-3) and NT-4(for Neurotrophin-4). While TrkA mediates the effects of NGF, TrkB is bound and activated by BDNF, NT-4, and NT-3. Further, TrkC binds and is activated by NT-3.3 TrkA receptor was found in kehumanoconus-affected corneas, along with an increased level of repressor isoform of Sp3 transcription factor.4
Synonyms:	High affinity nerve growth factor receptor, MTC, Neurotrophic tyrosine kinase receptor type 1, NTRK1, NTRK1_HUMAN, Oncogene TRK, p140-TrkA, TRK, Trk-A, TRK1, TRK1-transforming tyrosine kinase protein
Detection Kit Type:	ELISA Kit
Detection Range:	156 pg/ml - 10000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	NTRK1
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: A33-E407

Purity/Specificity:	Natural and recombinant human TrkA. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P04629 • NCBI - NP_001007793.1 • GeneID - 4914 • KOA0508 Protocol

Application Details

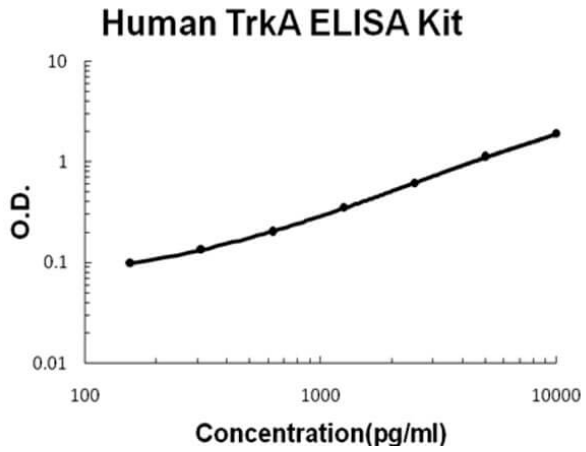
Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human TrkA standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, cell lysates or tissue lysates to each empty well. It is recommended that each human TrkA 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

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 TrkA AccuSignal ELISA Kit standard curve. Assay Range: 156pg/ml-10000pg/ml. Sensitivity: <10pg/ml.

Disclaimer

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