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Datasheet for ABIN6719879

TRKA ELISA Kit

Overview

Quantity:	1 kit
Target:	TRKA (NTRK1)
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Lysate, Cell Culture Supernatant, Tissue Lysate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>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</p> <p>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</p>

Product Details

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 keratoconus-affected corneas, along with an increased level of repressor isoform of Sp3 transcription factor.⁴ The standard product used in this kit is extracellular part(A33-P418) of recombinant rat TRKA, consisting of 386 amino acids with the molecular weight of 69KDa.

Gene Name: NTRK1

Production: Natural and recombinant rat TrkA. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: A33-P418

Target Details

Target:	TRKA (NTRK1)
Alternative Name:	TrkA (NTRK1 Products)
Gene ID:	59109
NCBI Accession:	NP_067600
UniProt:	P35739
Pathways:	RTK Signaling , Neurotrophin Signaling Pathway , cAMP Metabolic Process

Application Details

Application Notes:	<p>Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL rat TrkA standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of rat cell culture supernates, cell lysates or tissue lysates to each empty well. It is recommended that each rat TrkA standard solution and each sample be measured in duplicate.</p> <p>ELISA Dilution: 156pg/mL-10000pg/mL</p>
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	RT, 4 °C, -20 °C
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Storage Comment:	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.
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