Datasheet for ABIN6719696

TRKB ELISA Kit

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Overview

Quantity:	1 kit
Target:	TRKB (NTRK2)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	93.8 pg/mL - 6000 pg/mL
Minimum Detection Limit:	93.8 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:	Synonyms: BDNF tropomyosine receptor kinase B, BDNF/NT-3 growth factors receptor, GP145-TrkB, Neurotrophic tyrosine kinase receptor type 2, Ntrk2, NTRK2_HUMAN, Trk-B, TRKB, TrkB tyrosine kinase, Tyrosine kinase receptor B Background: TrkB receptor also known as TrkB tyrosine kinase or BDNF/NT-3 growth factors receptor or neurotrophic tyrosine kinase, receptor, type 2 is a protein that in humans is encoded by the NTRK2 gene.[1] TrkB is the high affinity catalytic receptor for several "neurotrophins", which are small protein growth factors that induce the survival and differentiation of distinct cell populations. The TrkB receptor is part of the large family of receptor tyrosine kinases. A

Product Details

"tyrosine kinase" is an enzyme which is capable of adding a phosphate group to certain tyrosines on target proteins, or "substrates".Soppet et al. [2] demonstrated that the gp145 gene product of the TRKB gene is rapidly phosphorylated on tyrosine residues upon exposure to BDNF and NTF3. The standard product used in this kit is recombinant TrkB, a 49.5KDa glycoprotein, C32-H439.

Gene Name: NTRK2

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

Standard: Expression system for standard: NSO, Immunogen sequence: C32-H429

Target Details

Target:	TRKB (NTRK2)
Alternative Name:	TrkB (NTRK2 Products)
Gene ID:	18212
NCBI Accession:	NP_001020245
UniProt:	P15209
Pathways:	RTK Signaling, Neurotrophin Signaling Pathway, cAMP Metabolic Process, Skeletal Muscle Fiber Development, Feeding Behaviour, Dicarboxylic Acid Transport

Application Details

Application Notes:	Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 6000pg/mL, 3000pg/mL, 1500pg/mL, 750pg/mL, 419pg/mL, 187.5pg/mL, 93.8pg/mL mouse trkB 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 mouse cell culture supernates, cell lysates or tissue lysates to each empty well. We recommend that each mouse trkB standard solution and each sample is measured in duplicate. ELISA Dilution: 93.8pg/mL-6000pg/mL
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	RT,4 °C,-20 °C
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.