

Datasheet for KOA0510**Mouse TrkB ELISA Kit****Overview**

Description:	Mouse TrkB AccuSignal ELISA Kit - KOA0510
Item No.:	KOA0510
Size:	1 Kit
Applications:	ELISA
Reactivity:	Mouse
Range:	93.8 pg/ml - 6000 pg/ml

Product Details

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 "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.
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
Detection Kit Type:	ELISA Kit
Detection Range:	93.8 pg/ml - 6000 pg/ml
Sensitivity:	<5 pg/ml

Target Details

Gene Name:	NTRK2
Reactivity:	Mouse

Immunogen:	Expression system for standard: NSO; Immunogen sequence: C32-H429
Purity/Specificity:	Natural and recombinant mouse TrkB. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P15209 • NCBI - NP_001020245.1 • GeneID - 18212 • KOA0510 Protocol

Application Details

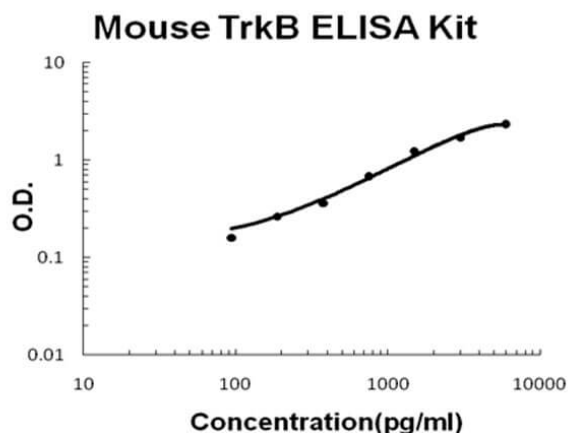
Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 6000pg/ml, 3000pg/ml, 1500pg/ml, 750pg/ml, 419pg/ml, 187.5pg/ml, 93.8pg/ml mouse trkB standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml 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.
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

Mouse TrkB AccuSignal ELISA Kit standard curve. Assay Range: 93.8pg/ml-6000pg/ml. Sensitivity: <5pg/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.