

Human TrkB ELISA Kit | NTRK2 elisa kit

Human TrkB PicoKine ELISA Kit

CATALOG #
AAA46762

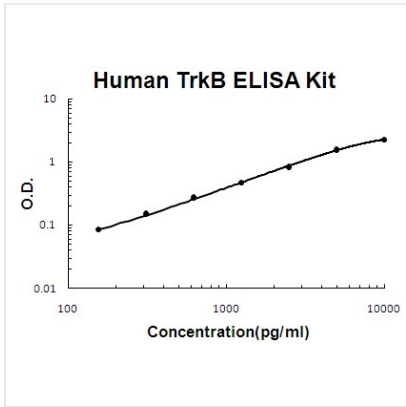
REACTIVITY
Human

PRODUCT SYNONYMS

TrkB; Human TrkB PicoKine ELISA Kit; GP145 TrkB; GP145-TrkB; NTRK2; Q16620; Trk-B; TrkB tyrosine kinase; BDNF/NT-3 growth factors receptor; neurotrophic receptor tyrosine kinase 2; NTRK2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human TrkB
Sequence Length	477
Assay Range	156pg/ml-10000pg/ml
Sensitivity	<10pg/ml
TMB incubation time	25-30
Immunogen	NSO, C32-H430
Sample Data	Concentration(pg/ml): 0 156 312 625 1250 2500 5000 10000 O.D.: 0.009 0.084 0.149 0.269 0.459 0.818 1.530 2.212
Intra/Inter Assay Precision	Sample: 1 2 3 1 2 3 n: 16 16 16 24 24 24 Mean(pg/ml): 202 1009 4057 195 887 3332 Standard Deviation: 12.72 54.48 198.73 14.62 54.10 193.25 CV(%): 6.3 5.4 4.9 7.5 6.1 5.8
Assay Procedure Step 1	Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human 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 human cell culture supernates, cell lysates or tissue homogenates to each empty well. It is recommended that each human TrkB standard solution and each sample be measured in duplicate.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human TrkB PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for NTRK2 elisa kit	For quantitative detection of human TrkB in cell culture supernates, cell lysates and tissue homogenates. 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. Principle: Human TrkB ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from Mouse specific for TrkB has been precoated onto 96-well plates. Standards (Expression system for standard: NSO, Immunogen sequence: C32-H430) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TrkB is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substRate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human TrkB amount of sample captured in plate.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	55956790
NCBI GeneID	4915
NCBI Accession #	NP_001007098.1
NCBI GenBank Nucleotide #	NM_001007097.2
UniProt Accession #	Q16620; Q16675; Q59GJ1; Q8WXJ5; Q8WXJ6; Q8WXJ7; B1ANZ4; B4DFV9
Molecular Weight	35,332 Da
NCBI Official Full Name	BDNF/NT-3 growth factors receptor isoform b
NCBI Official Synonym Full Names	neurotrophic receptor tyrosine kinase 2
NCBI Official Symbol	NTRK2
NCBI Official Synonym Symbols	TRKB; trk-B; GP145-TrkB
NCBI Protein Information	BDNF/NT-3 growth factors receptor
UniProt Protein Name	BDNF/NT-3 growth factors receptor
UniProt Gene Name	NTRK2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ntrk2-human-elisa-kits/trkb/46762>