

Rat TrkA ELISA Kit | NTRK1 elisa kit

Rat TrkA PicoKine ELISA Kit

CATALOG #
AAA45339

REACTIVITY
Rat

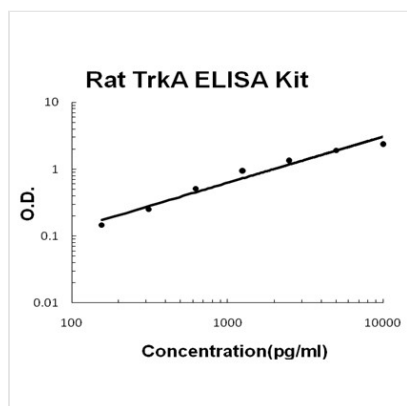
PRODUCT SYNONYMS

TrkA; Rat TrkA PicoKine ELISA Kit; High affinity nerve growth factor receptor; neurotrophic tyrosine kinase; receptor; type 1; MTC; Neurotrophic tyrosine kinase receptor type 1; NTRK1; NTRK1_HUMAN; Oncogene TRK; p140-TrkA; TRK; Trk-A; TRK1; TRK1-transforming tyrosine kinase protein; NTRK1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat TrkA
Sequence Length	799
Samples	Cell culture supernates, Cell lysates and tissue homogenates
Assay Type	Sandwich
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Rat TrkA PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for NTRK1 elisa kit

Principle of the assay: rat TrkA ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TrkA has been precoated onto 96-well plates. Standards(NSO, A33-P418) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TrkA 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 rat TrkA amount of sample captured in plate.

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 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	549122
NCBI GeneID	59109
UniProt Accession #	P35739
Molecular Weight	87,252 Da
NCBI Official Full Name	High affinity nerve growth factor receptor
NCBI Official Synonym Full Names	neurotrophic tyrosine kinase, receptor, type 1
NCBI Official Symbol	Ntrk1
NCBI Official Synonym Symbols	Trk
NCBI Protein Information	high affinity nerve growth factor receptor; trk; trk-A; p140-TrkA; TrkA neurotrophin receptor; trkA proto-oncogene receptor; tropomyosin-related kinase A; slow nerve growth factor receptor
UniProt Protein Name	High affinity nerve growth factor receptor
UniProt Gene Name	Ntrk1
UniProt Synonym Gene Names	Trk; Trka; Trk-A
UniProt Entry Name	NTRK1_RAT

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/ntrk1-rat-elisa-kits/trka/45339>