

## Human High Affinity Nerve Growth Factor Receptor, NTRK1 ELISA Kit | NTRK1 elisa kit

Human High Affinity Nerve Growth Factor Receptor, NTRK1 Primacu ELISA Kit

CATALOG #  
**AAA124102**

REACTIVITY  
**Human**

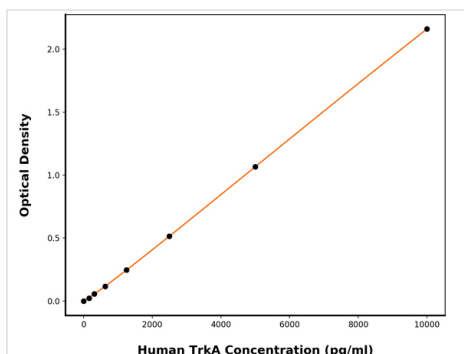
### PRODUCT SYNONYMS

High Affinity Nerve Growth Factor Receptor; NTRK1; Human High Affinity Nerve Growth Factor Receptor; NTRK1 Primacu ELISA Kit; High affinity nerve growth factor receptor; TrkA; MTC; TRK; TRKA; NTRK1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                        |
|-------------------------|----------------------------------------|
| Reactivity              | Human                                  |
| Assay Type              | Sandwich                               |
| Samples                 | Serum, plasma, cell culture supernates |
| Detection Range         | 156.25-10000pg/mL                      |
| Sensitivity             | 38.02pg/mL                             |
| Standard Solution       | 100ng/mL                               |
| Assay Time              | 3.5h                                   |
| Preparation and Storage | Store at 2-8 degree C                  |

### IMAGES



Standard Curve (Sample)

Typical Testing Data/Standard Curve (for reference only)

ADDITIONAL INFORMATION

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|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for NTRK1 elisa kit | TRKA is a member of the neurotrophic tyrosine kinase receptor (NTRK) family. It is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Isoform TrkA-III promotes angiogenesis and has oncogenic activity when overexpressed. Isoform TrkA-I is found in most non-neuronal tissues. Isoform TrkA-II is primarily expressed in neuronal cells. TrkA-III is specifically expressed by the pluripotent neural stem and neural crest progenitors. The presence of NTRK1 leads to cell differentiation and may play a role in specifying sensory neuron subtypes. Mutations in the TRKA gene have been associated with congenital insensitivity to pain, anhidrosis, self-mutilating behavior, mental retardation, and cancer. It was originally identified as an oncogene as it is commonly mutated in cancers, particularly colon and thyroid carcinomas. TRKA is required for high-affinity binding to nerve growth factor (NGF), neurotrophin-3 and neurotrophin-4/5 but not brain-derived neurotrophic factor (BDNF). Known substrates for the Trk receptors are SHC1, PI 3-kinase, and PLC-gamma-1. NTRK1 has a crucial role in the development and function of the nociceptive reception system as well as the establishment of thermal regulation via sweating. It also activates ERK1 by either SHC1- or PLC-gamma-1-dependent signaling pathway. Defects in NTRK1 are a cause of congenital insensitivity to pain with anhidrosis and thyroid papillary carcinoma. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy |
| Product Categories/Family for NTRK1 elisa kit   | Primacu ELISA Kit; Neuroscience; Cancer; Cell biology; Developmental biology; Signal transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                         |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 56118210                                                                                                                                                                |
| NCBI GeneID                      | 4914                                                                                                                                                                    |
| NCBI Accession #                 | NP_001007793.1                                                                                                                                                          |
| NCBI GenBank Nucleotide #        | NM_001007792.1                                                                                                                                                          |
| UniProt Accession #              | P04629; P08119; Q15655; Q15656; Q5D056; Q5VZS2; Q7Z5C3; Q9UIU7; B2R6T5; B7ZM34                                                                                          |
| Molecular Weight                 | 87,497 Da                                                                                                                                                               |
| NCBI Official Full Name          | high affinity nerve growth factor receptor isoform 3                                                                                                                    |
| NCBI Official Synonym Full Names | neurotrophic tyrosine kinase, receptor, type 1                                                                                                                          |
| NCBI Official Symbol             | NTRK1                                                                                                                                                                   |
| NCBI Official Synonym Symbols    | MTC; TRK; TRK1; TRKA; Trk-A; p140-TrkA                                                                                                                                  |
| NCBI Protein Information         | high affinity nerve growth factor receptor; gp140trk; Oncogene TRK; tyrosine kinase receptor A; tropomyosin-related kinase A; TRK1-transforming tyrosine kinase protein |
| UniProt Protein Name             | High affinity nerve growth factor receptor                                                                                                                              |
| UniProt Gene Name                | NTRK1                                                                                                                                                                   |
| UniProt Synonym Gene Names       | MTC; TRK; TRKA; Trk-A                                                                                                                                                   |
| UniProt Entry Name               | NTRK1_HUMAN                                                                                                                                                             |

**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/human-elisa-kits/high-affinity-nerve-growth-factor-receptor-ntrk1/124102>