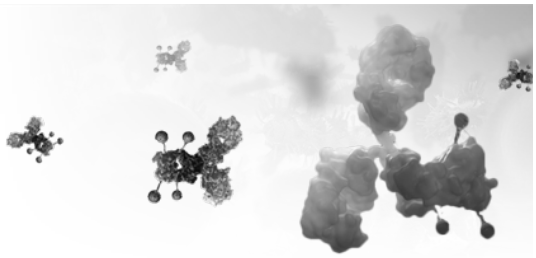

# Human NTRK1 (phospho Y490) peptide (DAG-P1265)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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|---|---|
| **Antigen Description** | This gene encodes a member of the neurotrophic tyrosine kinase receptor (NTKR) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. The presence of this kinase leads to cell differentiation and may play a role in specifying sensory neuron subtypes. Mutations in this gene have been associated with congenital insensitivity to pain, anhidrosis, self-mutilating behavior, mental retardation and cancer. Alternate transcriptional splice variants of this gene have been found, but only three have been characterized to date. [provided by RefSeq, Jul 2008] |
| **Specificity** | 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 pluripotent neural stem and neural crest progenitors. |
| **Purity** | 70 - 90% by HPLC. |
| **Conjugate** | Unconjugated |
| **Sequence Similarities** | Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily.Contains 2 Ig-like C2-type (immunoglobulin-like) domains.Contains 2 LRR (leucine-rich) repeats.Contains 1 LRRCT domain.Contains 1 protein kinase domain. |
| **Format** | Liquid |
| **Preservative** | None |
| **Storage** | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request. |

## GENE INFORMATION

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|---|---|
| **Gene Name** | NTRK1 neurotrophic tyrosine kinase, receptor, type 1 [ Homo sapiens (human) ] |
| **Official Symbol** | NTRK1 |
| **Synonyms** | NTRK1; neurotrophic tyrosine kinase, receptor, type 1; MTC; TRK; TRK1; TRKA; Trk-A; p140-TrkA; high affinity nerve growth factor receptor; gp140trk; Oncogene TRK; tyrosine kinase receptor A; tropomyosin-related kinase A; TRK1-transforming tyrosine kinase protein; |
| **Entrez Gene ID** | 4914 |
| **mRNA Refseq** | NM_001007792.1 |
| **Protein Refseq** | NP_001007793.1 |
| **UniProt ID** | P04629 |
| **Chromosome Location** | 1q21-q22 |
| **Pathway** | ARMS-mediated activation, organism-specific biosystem; Activation of TRKA receptors, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; BDNF signaling pathway, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; Frs2-mediated activation, organism-specific biosystem; Inflammatory mediator regulation of TRP channels, organism-specific biosystem; Inflammatory mediator regulation of TRP channels, c |
| **Function** | ATP binding; ephrin receptor binding; nerve growth factor binding; NOT nerve growth factor binding; nerve growth factor receptor activity; neurotrophin binding; neurotrophin p75 receptor binding; protein binding; protein homodimerization activity; transme |

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