

## Rabbit polyclonal antibody to Tyrosine Kinase Receptor A [TrkA] (342-361): Affinity purified

<b>Catalogue No.:</b>	R-1362-100
<b>Description:</b>	TrkA is a member of the neurotrophic tyrosine kinase receptor family. It is a membrane-bound receptor that upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. 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). TrkA leads to cell differentiations and may play a role in specifying sensory neuron subtypes. It has a crucial role in the development and function of the nociceptive reception system as well as establishment of thermal regulation via sweating. SUBUNIT: Exists in a dynamic equilibrium between monomeric (low affinity) and dimeric (high affinity) structures. SUBCELLULAR LOCATION: Cell membrane; single-pass type I membrane protein. Endocytosed to the endosomes upon treatment of cells with NGF. ALTERNATIVE PRODUCTS: 2 named isoforms produced by alternative splicing. Both isoforms have similar biological properties. TISSUE SPECIFICITY: Isoform TrkA-II is primarily expressed in neuronal cells. Isoform TrkA-I is found in non-neuronal tissues. Mutations in TrkA have been associated with congenital insensitivity to pain, anhidrosis, self-mutilating behaviour, mental retardation and cancer.
<b>Batch No.:</b>	See product label
<b>Unit size:</b>	100 ug
<b>Antigen:</b>	A synthetic peptide corresponding to a sequence in the middle region of human TrkA (342-361aa) RHGCLRLNQPTHVNNGNYTL). This sequence is identical to the related rat and mouse sequences as well.
<b>Sequence:</b>	RHGCLRLNQPTHVNNGNYTL
<b>Antigen Location:</b>	Within the Ig-like C2-type 2 Domain spanning two glycosylation sites; epitope lies within the extracellular region of the protein (33-423 aa) within 100 amino acids of its entry into the transmembrane domain (aa 424-439) [Uniprot P04629 (NTRK1_HUMAN)]
<b>Antibody Type:</b>	Antiserum
<b>Isotype:</b>	IgG
<b>Other Names:</b>	Tropomyosin-related kinase receptor, High affinity nerve growth factor receptor, Neurotrophic tyrosine kinase receptor type 1, TRK1 transforming tyrosine kinase protein, p140-TrkA, Trk-A, GENE NAME: NTRK1, TRK.
<b>Accession:</b>	P04629 NTRK1_HUMAN;
<b>Produced in:</b>	Rabbit
<b>Purity:</b>	Affinity purified
<b>Applications:</b>	Western Blotting (WB). A concentration of 0.1-0.5 ug/mL is recommended for WB. Human TrkA (isoform TrkA-II) has a predicted length of 796 amino acids and MW of 87 kDa. A concentration of 0.5-1.0 ug/mL is recommended to detect the protein in formalin fixed and paraffin embedded tissues. Heat mediated antigen retrieval is recommended. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.

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<b>Specificity:</b>	The specificity of this antibody has been confirmed by WB and IHC against the antigen.
<b>Antibody Against:</b>	Tyrosine Kinase Receptor A, TrkA
<b>Cross-reactivity:</b>	Human; rat; predicted to react with mouse due to sequence homology;
<b>Form:</b>	Lyophilized with 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> added as preservative
<b>Appearance:</b>	Lyophilized white powder
<b>Reconstitution:</b>	Reconstitute in 100 uL of sterile distilled water to achieve an antibody concentration of 1 mg/mL. Centrifuge to remove any insoluble material.
<b>Storage:</b>	At least 12 months after purchase at 2-8C (lyophilized formulations). After reconstitution, aliquot and store at -20C for a higher stability. Avoid freeze-thaw cycles.
<b>Expiry Date:</b>	12 months after purchase

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