

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

Catalogue No.:	R-1362-100
Description:	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-mutalating behaviour, mental retardation and cancer.
Batch No.:	See product label
Unit size:	100 ug
Antigen:	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.
Sequence:	RHGCLRLNQPTHVNNGNYTL
Antigen Location:	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)]
Antibody Type:	Antiserum
Isotype:	IgG
Other Names:	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.
Accession:	P04629 NTRK1_HUMAN;
Produced in:	Rabbit
Purity:	Affinity purified
Applications:	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.

FOR RESEARCH USE ONLY

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Specificity:	The specificity of this antibody has been confirmed by WB and IHC against the antigen.
Antibody Against:	Tyrosine Kinase Receptor A, TrkA
Cross-reactivity:	Human; rat; predicted to react with mouse due to sequence homology;
Form:	Lyophilized with 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ added as preservative
Appearance:	Lyophilized white powder
Reconstitution:	Reconstitute in 100 uL of sterile distilled water to achieve an antibody concentration of 1 mg/mL. Centrifuge to remove any insoluble material.
Storage:	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.
Expiry Date:	12 months after purchase

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