

Product datasheet for **TA328674**

Neurotrophin 4 (NTF4) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide LGEVPAAGGSPL(C), corresponding to amino acid residues 43-52 of mature human NT-4 (123-132 of the precursor NT-4).
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 5% sucrose, 0.025% NaN ₃ .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	neurotrophin 4
Database Link:	NP_006170 Entrez Gene 4909 Human P34130



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Background:

The neurotrophins ("neuro" means nerve and "trophe" means nutrient) are a family of soluble, basic growth factors which regulate neuronal development, maintenance, survival and death in the CNS and the PNS. Neurotrophin-4 (NT-4) is expressed in neurons of the superior cervical, stellate and celiac ganglion, T-cells and is synthesized by keratinocytes. The structural hallmark of all the neurotrophins is the characteristic arrangement of the disulfide bridges known as the cysteine knot, which has been found in other growth factors such as PDGF. The rat and human forms of NT-4 are 96% homologous. NT-4 has been shown to promote dendritic outgrowth and calcium currents in cultured mesencephalic dopamine neurons, to promote growth and remodeling of adult motor neuron innervation, to be anterograde survival factors for postsynaptic cells and to protect against apoptotic neuronal death. The biological effects of NT-4 are mediated by two receptors: TrkB, which is specific for NT-4 and BDNF, and p75 which binds all the neurotrophins.

Synonyms:

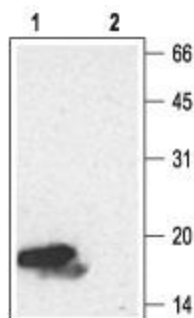
5; GLC10; GLC10; NT-4; NT-5; NT4; NT5; NTF5

Protein Families:

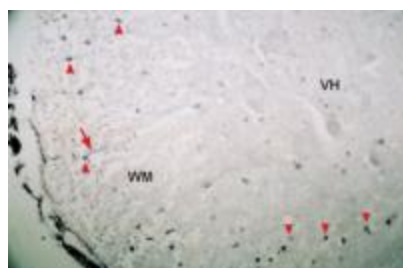
Druggable Genome, Secreted Protein

Protein Pathways:

MAPK signaling pathway, Neurotrophin signaling pathway

Product images:

Western blot analysis of hNT-4, (10 ng): 1. Anti-NT-4 antibody, (1:200). 2. Anti-NT-4, preincubated with the control peptide antigen.



Expression of NT-4 in mouse spinal cord. Immunohistochemical staining of NT-4 using Anti-NT-4 antibody in mouse spinal cord. The spinal ventral horn (VH) was very lightly stained. However, in the perimeter of the white matter (WM) there were NT-4 immunoreactive cells with a small soma (triangles) and some had a stained process (arrows).