



Anti-NTF4 polyclonal antibody [Biotin] (DPABY-645)

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

PRODUCT INFORMATION

Antigen Description	Neurotrophin-3 (NT-3) and Neurotrophin-4 (NT-4) are members of the NGF family of neurotrophic factors that are required for the differentiation and survival of specific neuronal subpopulations. The neurotrophin family is comprised of at least four proteins including NGF, BDNF, NT-3, and NT-4/5. These secreted cytokines are synthesized as prepropeptides that are proteolytically processed to generate active propeptides and mature protein homodimers. Mature NT-4 also forms heterodimers with BDNF or NT-3. Neurotrophins induce dimerization and activation of Trk family receptors and promote the development and survival of selected peripheral and CNS neurons. All neurotrophins have six conserved disulfide-linked cysteine residues.
Specificity	Detects human NT-4 in ELISAs and Western blots. In sandwich immunoassays, less than 0.1% cross-reactivity with recombinant human (rh)CNTF, rhNeurturin, rhNT-3, rhBDNF, rhGDNF, and rh beta -NGF is observed.
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human NT-4. Gly81-Ala210 Accession Number P34130
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	Western Blot, ELISA Detection (Matched Pair)
Format	Liquid

Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin per 1 µg of antibody.
Preservative	None
Storage	Lyophilized samples are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Upon reconstitution, the antibody can be stored at 2 °C to 8 °C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20 °C to -70 °C in a manual defrost freezer for six months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	NTF4 neurotrophin 4 [Homo sapiens (human)]
Official Symbol	NTF4
Synonyms	NTF4; neurotrophin 4; NT4; NT5; NT-4; NT-5; NTF5; GLC10; GLC1O; NT-4/5; neurotrophin-4; neurotrophin-5; neurotrophic factor 4; neurotrophic factor 4; neurotrophic factor 5; neurotrophin 5 (neurotrophin 4/5);
Entrez Gene ID	4909
Protein Refseq	NP_006170
UniProt ID	A0A024QZE4
Chromosome Location	19q13.3
Pathway	MAPK signaling pathway; Neurotrophic factor-mediated Trk receptor signaling; Neurotrophin signaling pathway; p75(NTR)-mediated signaling;
Function	growth factor activity;