



Anti-NTF4 monoclonal antibody, clone 47637 (DCABY-4114)

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 direct ELISAs and Western blots. In Western blots, this antibody shows less than 1% cross-reactivity with recombinant human (rh) NT-3 and rhBDNF.
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human NT-4
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	47637
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Unconjugated
Applications	Western Blot, ELISA Capture (Matched Pair)
Format	Liquid

Size	500 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month from date of receipt, 2 to 8 °C, reconstituted. 6 months from date of receipt, -20 to -70 °C, reconstituted.

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; GLC10; 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;