

DESCRIPTION

Species Reactivity	Human
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.
Source	Monoclonal Mouse IgG ₁ Clone # 36526
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human NT-4
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

NT-4 was originally identified as a mammalian homolog of the *Xenopus* neurotrophin, NT-4. Along with NGF, BDNF, and NT-3, it is a member of the NGF family of neurotrophic factors that are required for the differentiation and survival of specific neuronal subpopulations in both the central and the peripheral nervous systems. NT-4 functions through interactions with the TrkB receptor tyrosine kinase. Because mammalian NT-4 is much more divergent from its amphibian functional counterpart (*Xenopus* NT-4) than other family members, it is sometimes designated NT-5 or NT-4/5.

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