

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NT-4 Propeptide in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with mature recombinant human NT-4 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human NT-4 Propeptide Gln25-Arg80 Accession # P34130
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

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 Propeptide (neurotrophin-4/5) is a 27 kDa, secreted, glycosylated neuronal polypeptide that belongs to the NGF-β family of neurotrophic factors. It is synthesized as a proform that contains a 9 kDa, 56 amino acid (aa) proregion (aa 25-80) and a 130 aa mature segment. The mature molecule forms both nondisulfide linked heterodimers (with NGF) and homodimers. It is unclear if 186 aa NT-4 Propeptide dimerizes, but this might be anticipated. Proneurotrophins are believed to activate NGFR and sortilin complexes and neurotrophin proregions regulate neurotrophin maturation. Over aa 25-80, human NT-4 Propeptide is 89% and 91% aa identical to mouse and canine NT-4 Propeptide, respectively.

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