

DESCRIPTION

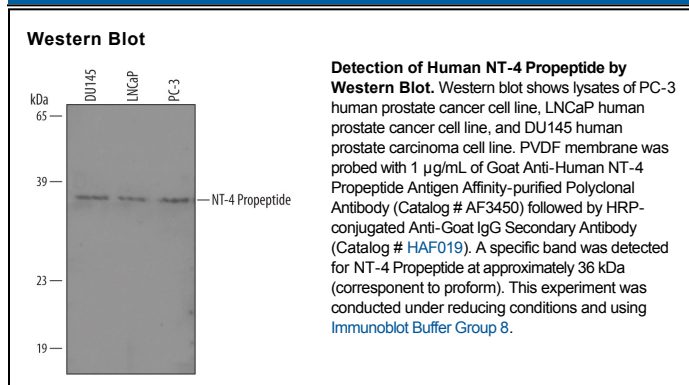
Species Reactivity	Human
Specificity	Detects human NT-4 Propeptide in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with mature recombinant human NT-4 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human NT-4 Propeptide Gln25-Arg80 Accession # P34130
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.