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PRODUCT DATASHEET

# Anti-Pro-Nerve growth factor (proNGF) Antibody (Biotin)

## Product Details

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|---|---|
| **Available Variants** | 50 µg (SKU:M-1778-50-B) |
| **Conjugate** | Unconjugated |
| **Clone** | BS312 |
| **Host Species** | Mouse |
| **Format** | IgG |
| **Physical State** | Lyophilized |
| **Buffer** | Lyophilized from a solution containing PBS buffer pH 7.4 with 3% trehalose, without preservatives. |
| **Production Notes** | Antibody was purified from cell culture supernatant by Protein G chromatography, biotinylated and buffer-exchanged into PBS, pH 7.4 buffer |
| **Applications** | WB |
| **Dilution Ranges** | WB: 0.1-0.5 µg/mL |
| **Species Reactivity** | Human |
| **Immunogen** | A synthetic peptide (C-HTIPQAHWTKLQ, aa: 30-41) of human proNGF protein has been used as the immunogen. The sequence is located on the pro-domain of the proNGF full-length protein and is 80% homologous to mouse and rat proNGF. |
| **Specificity** | Human Species cross-reactivity not tested. |

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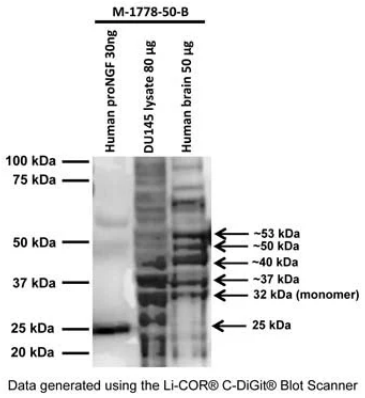
| **Storage** | Spin vial briefly before opening. Reconstitute in 50 µL of sterile-filtered, ultrapure water to give a concentration of 1 mg/mL. Centrifuge to remove any insoluble material. Final buffer contains no preservative.After reconstitution divide into aliquots and store at -20°C for a higher stability. Antibody contains no preservatives. Store at 2-8°C with an appropriate antibacterial agent. Use sterile methods. Highest purity Glycerol (1:1) may be added for an additional stability when stored at refrigerated or freezing temperatures. Avoid repetitive freeze/thaw cycles. |
| **UniProt ID** | P01138 |
| **Country of Origin** | United States |
| **Shipping** | 25°C (ambient) |
| **Expiration** | 12 months after date of receipt (unopened vial). |
| **Usage Statement** | For research use only. |

## Product Images



Data generated using the Li-COR® C-DiGit® Blot Scanner

**Western blot** analysis of proNGF expression in human DU145 prostate cancer cell lysate and normal human brain. Biotinylated, monoclonal proNGF antibody M-1778-50-B (0.5 µg/mL) detects monomeric, non-glycosylated proNGF protein (E.coli derived) at 25 kDa (Lane 1). In DU145 cell lysate (Lane 2) and human brain (Lane 3), M-1778-50-B detects monomeric, glycosylated proNGF at 32 kDa, and several proNGF isoforms (~37 to ~53 kDa). These additional bands have not been characterized, but literature suggests that these bands are at least partly related to glycosylated forms of full-length proNGF (Reinshagen *et al.*, 2000; *Lobos et al.*, 2005; *Pedraza et al.*, 2005; *Pundavela et al.*, 2014). **Western Blotting Method:** SDS-PAGE: denaturing and reducing, 4-20% Bis-Tris gel; Semi-Dry Transfer: Tris-Glycine (Towbin) buffer with 20% methanol; Membrane: Nitrocellulose (0.45 µm); Blocking: 3% BSA in TBST, 1 hour at RT; Primary antibody: overnight at 4°C; HRP conjugate: streptavidin-HRP (25 ng/mL), 1 hour at RT; Detection: Chemiluminiscence.