

Anti-Pro-nerve growth factor (proNGF) Antibody



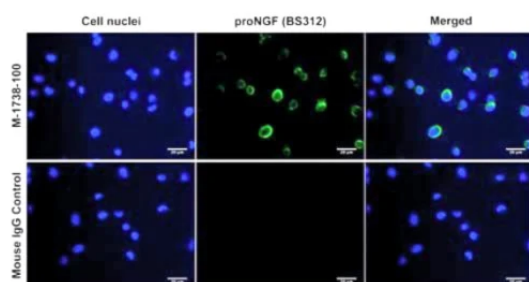
Product Details

Available Variants	100 µg (SKU:M-1738-100)
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	Protein G purified mouse IgG.
Applications	Flow, ICC, WB
Dilution Ranges	WB: 1-2 µg/mL ICC: 1-2 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.

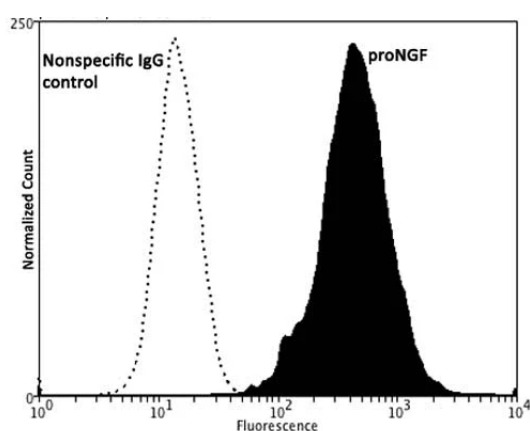
Storage	Spin vial briefly before opening. Reconstitute in 100 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. Final buffer contains no preservatives. Store lyophilized antibody at 2-8°C. After reconstitution divide into aliquots and store at -20°C for a higher stability. 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	<u>P01138</u>
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

Western blot analysis of proNGF expression in DU145 and PC3 prostate cancer cell lysates. Monoclonal proNGF antibody M-1738-100 detects monomeric, non-glycosylated proNGF protein (20 ng, E.coli derived) at 25 kDa (Sample 1). PC3 (Sample 2, 100 µg) and DU145 (Sample 3, 100 µg) cell lysates show several proNGF isoforms (32 kDa, ~40 kDa, ~60 kDa, and higher molecular weight bands) as previously described, which most likely relates to glycosylated forms of full-length proNGF (Reinshagen *et al.*, 2000; Lobos *et al.*, 2005; Pedraza *et al.*, 2005; Pundavela *et al.*, 2014). Specificity of these bands is shown by pre-incubation with the immunizing peptide (5x mass of primary antibody), and a secondary antibody only control blot. **Western Blotting Method:** SDS-PAGE: denaturing and reducing, 4-20% Bis-Tris gel; Semi-Dry Transfer: Tris-Glycine (Towbin's) buffer with 20% methanol; Membrane: Nitrocellulose (0.45 µm); Blocking: 5% skim milk in TBST, 1 hour at RT; Primary antibody: 2 µg/mL, overnight at 4°C; Secondary antibody: anti-mouse-HRP (1/6000), 1 hour at RT; Detection: Chemiluminiscence.



Immunofluorescence analysis of proNGF expression in human DU145 prostate cancer cells. Fixed (4% formaldehyde), permeabilized, and blocked (10% normal horse serum, 0.1% Triton X100) DU145 cells were incubated with proNGF antibody M-1738-100 (2 µg/mL, green) for 1 hour. Primary antibody binding was visualized with a secondary donkey anti-mouse-CF488A antibody (4 µg/mL, 1 hour incubation). Cell nuclei were stained with Hoechst dye (blue). Magnification: 100x.



Fixing and Permeabilization of cells: Absolute methanol (10 minutes in ice) and 0.1% Tween-20 in PBS, Blocking: 200 µg/mL Normal Sheep IgG (20 minutes), Primary antibody: Mouse Monoclonal antibody to proNGF (cat # M-1738-100, 2 µg per $\sim 10^6$ cells) for 60 minutes at room temperature, Secondary antibody: Goat anti-mouse PE labeled secondary antibody (1:100 fold dilution) with incubation for 20 minutes in dark at room temperature. Non-specific Control IgG, clone X63 (cat # M-1249-100) was used as negative control under same conditions (black dashed). **Flow cytometry** data and results were generated using Orflo Moxiflow™ instrument and protocols. The data demonstrates specific staining of proNGF expressed in human prostate cancer DU145 cell line using cat# M-1738-100.

Product Page URL: www.antibodiesinc.com/products/anti-pro-nerve-growth-factor-prongf-antibody-m-1738-100



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