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| <b>Cat. No:</b>          | AB-84257                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Conjugate:</b>        | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Size:</b>             | 100 ug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Clone:</b>            | POLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Concentration:</b>    | 1mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Host:</b>             | Rb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Isotype:</b>          | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen:</b>        | E. coli-derived human NGF/NGF Beta recombinant protein (Position: S122-A241). Human NGF/NGF Beta shares 92.4% amino acid (aa) sequence identity with rat NGF/NGF Beta.                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Reactivity:</b>       | Hu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Applications:</b>     | ELISA: 0.1-0.5µg/ml<br>Western blot: 0.1-0.5µg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Weight:</b> | 13kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purification:</b>     | Aff. Pur.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms:</b>         | Beta-nerve growth factor;Beta-NGF;NGF;NGFB;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Background:</b>       | Nerve growth factor is a polypeptide involved in the regulation of growth and differentiation of sympathetic and certain sensory neurons. The nucleotide sequence of human and mouse beta-NGF are very similar. The beta-subunits of nerve growth factor (NGFB) have been assigned to mouse chromosome 3 and human chromosome 1p22. The human gene for the beta subunit of nerve growth factor is located on the proximal short arm of chromosome 1. A mutation in the nerve growth factor beta gene (NGFB) causes loss of pain perception. |
| <b>Form:</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Buffer:</b>           | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Na <sub>3</sub> .                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage:</b>          | At -20°C for one year. After reconstitution, at 4°C for one month. Avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                                                                                     |



Figure 1. Western blot analysis of NGF/NGF Beta using anti-NGF/NGF Beta antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: Recombinant Human NGF/NGF Beta Protein 0.5ng After Electrophoresis,

proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes.  
Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- NGF/NGF Beta antigen affinity purified polyclonal antibody at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NGF/NGF Beta at approximately 13KD. The expected band size for NGF/NGF Beta is at 13KD.

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