

## Product datasheet for **AP05352PU-N**

### NGF Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FN, WB
Recommended Dilution:	<b>ELISA.</b> <b>Western Blot.</b> <b>Functional Assays:</b> 0.1-1.0 µg/ml.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Affinity purified Mouse 2.5S NGF
Specificity:	This antibody recognizes both the 2.5S and 7S forms of Mouse NGF beta, a secreted peptide involved in the development and maintenance of the sympathetic and sensory nervous systems. In a standard bioassay, this antibody neutralises the activity of 3.0 ng/ml NGF 2.5S when used at a concentration of around 0.5 µg/ml.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Stabilizer: None Preservative: None
Reconstitution Method:	Restore with 1.0 ml distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. We recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% Sodium Azide is recommended. For Functional Studies <b>do not</b> Add Sodium Azide.
Concentration:	1.0 mg/ml (after reconstitution)
Purification:	Affinity Chromatography
Conjugation:	Unconjugated



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<b>Storage:</b>	Store undiluted at -20°C. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	nerve growth factor
<b>Database Link:</b>	<a href="#">Entrez Gene 4803 Human P01138</a>
<b>Background:</b>	<p>Nerve growth factor (NGF) is one of a family of neurotrophins that induce the survival and proliferation of neurons. In cell culture, NGF induces the formation of neurite projections and, in vivo, may stimulate the innervation of tissues. NGF plays a role in the repair, regeneration, and protection of neurons, and as such could serve as a therapeutic agent in neurodegenerative conditions such as Alzheimer's disease. NGF enhances survival, growth, neurotransmitter biosynthesis of sympathetic and sensory neurons; neurotrophic factor; cutaneous innervation; growth, differentiation and survival of B lymphocytes. It also has a possible role in allergy and tissue repair. NGF is found in the hypothalamus, pituitary, thyroid gland, testes, epididymis, vascular smooth muscle cells, fibroblasts, mast cells and eosinophils. NGF is upregulated by glutamate, vitamin D3, IL6, FGF basic, astrocyte specific IL1, TNF alpha, PDGF and TGF beta. It is downregulated by GABAergic neuronal activity, glucocorticoids and Schwann cell-specific TGF beta.</p>
<b>Synonyms:</b>	Beta-NGF, NGFB, Beta-nerve growth factor
<b>Note:</b>	<b><u>Antiserum Preparation</u></b> Antiserum to NGF 2.5S was raised by repeated immunisation of Rabbits with highly purified antigen. Purified IgG was prepared from whole serum by Affinity Chromatography on Protein G.