

Product datasheet for **TA301201**

NGF Rabbit Monoclonal Antibody [Clone ID: EP1318Y]

Product data:

Product Type:	Primary Antibodies
Clone Name:	EP1318Y
Applications:	WB
Recommended Dilution:	WB: 1: 1,000; ICC: 1: 100; FC: 1:200; IP: 1:20
Reactivity:	Mouse, Rat, Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to residues near the N-terminus of human NGF-beta precursor (pro-NGF) form was used as an immunogen. This antibody recognizes pro-NGF.
Formulation:	pH: 7.40 Preservative: 0.01% Sodium azide Constituents: 50% Glycerol, 0.05% BSA
Purification:	Tissue culture supernatant
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	27 kDa
Gene Name:	nerve growth factor
Database Link:	NP_002497 Entrez Gene 18049 Mouse Entrez Gene 310738 Rat Entrez Gene 4803 Human P01138



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Background:

Nerve growth factor (NGF) stimulates division and differentiation of sympathetic and embryonic sensory neurons. NGF is thought to have a profound effect on the development and maintenance of sympathetic and embryonic sensory neurons (1). NGF activity isolated from the male mouse submaxillary gland (MSG) consists of three types of subunits, alpha, beta and gamma, which specifically interact to form a 7S, approximately 130,000-molecular weight (Mr) complex. The 7S complex contains two identical 118-amino acid beta-chains, which are solely responsible for the nerve growth-stimulating activity of NGF. While NGF is found in almost all vertebrates, most research has focused on murine NGF, as the mouse male submaxillary gland contains higher levels of this polypeptide than other tissues (2). A precursor form of NGF (pro-NGF) selectively binds to p75NTR receptor and leads to apoptosis with expression of TrkA and p75NTR. However, mature NGF binding to TrkA and p75NTR receptors shows opposite effect and leads to activation of cell survival (3).

Synonyms:

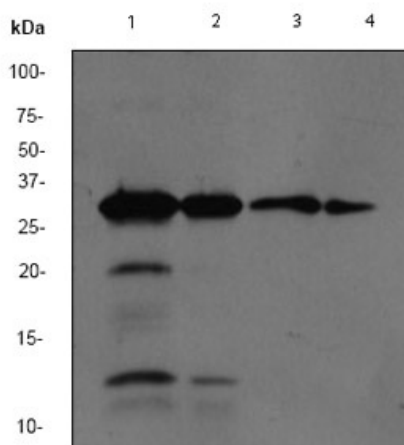
Beta-NGF; HSN5; NGFB

Protein Families:

Druggable Genome, Secreted Protein

Protein Pathways:

Apoptosis, MAPK signaling pathway, Neurotrophin signaling pathway

Product images:

Western blot - NGF antibody [EP1318Y]; All lanes : Anti-NGF antibody [EP1318Y] at 1/5000 dilution. Lane 1 : 10ng human pro-NGF recombinant protein. Lane 2 : 5ng human pro-NGF recombinant protein. Lane 3 : 1ng human pro-NGF recombinant protein. Lane 4 : 0.5ng human pro-NGF recombinant protein. Secondary. HRP labelled goat anti-rabbit at 1/2000 dilution. Predicted band size : 27 kDa. Observed band size : 27 kDa. Additional bands at : 13 kDa, 20 kDa. We are unsure as to the identity of these extra bands.