

Human NGF/NGFB/beta-NGF ELISA Kit | NGF/NGFB/beta-NGF elisa kit

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CATALOG #
AAA258413

REACTIVITY
Human

PRODUCT SYNONYMS

NGF/NGFB/beta-NGF; Human NGF/NGFB/beta-NGF ELISA Kit; NGF ELISA Kit; Human; nerve growth factor (beta polypeptide); Beta-NGF ELISA Kit; HSN5 ELISA Kit; NGFB ELISA Kit; NGF/NGFB/beta-NGF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human NGF/NGFB/beta-NGF concentration in cell culture supernates.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Cell supernatant
Detection Range	4.69-300pg/mL
Sensitivity	2.79pg/mL
Conjugation	HRP
Interference	Preparations of the factors listed below at 50ng/mL in a mid-range recombinant human beta-NGF control were assayed for interference. No significant interference was observed. High significant interference were observed within standard curve of recombinant mouse beta-NGF.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

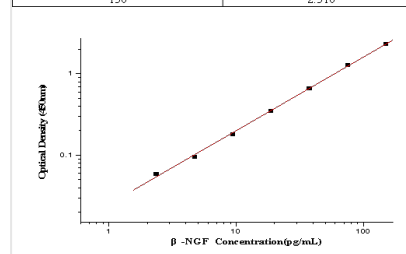
IMAGES

Recombinant human				
BDNF	CNTF	GDNF	NT-3	
Recombinant rat				
CNTF				

Application Data

This assay recognizes both recombinant and natural Human beta-NGF. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed. High cross-reactivity were observed within standard curve of recombinant mouse beta-NGF.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
2.35	0.059
4.69	0.095
9.38	0.179
18.75	0.348
37.5	0.668
75	1.291
150	2.316



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for NGF/NGFB/beta-NGF elisa kit	This NGF ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human NGF protein in Cell supernatant. It contains recombinant Human NGF, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Nerve growth factor (NGF) is important for the development and maintenance of the sympathetic and sensory nervous systems. NGF protein was identified as a large complex consisting of three non-covalently linked subunits, alpha, beta, and gamma, among which, the beta subunit, called beta-NGF (beta-NGF), was demonstrated to exhibits the growth-stimulating activity of NGF protein. NGFB/beta-NGF gene is a member of the NGF-beta family and encodes a secreted protein that homodimerizes and is incorporated into a larger complex. NGF protein acts via at least two receptors on the surface of cells (TrkA and p75 receptors) to regulate neuronal survival, promote neurite outgrowth, and up-regulate certain neuronal functions such as mediation of pain and inflammation. Also, previous studies indicated that NGF may also have an important role in the regulation of the immune system.
References	Castellanos MR, et al. (2003) Evaluation of the neurorestorative effects of the murine beta-nerve growth factor infusions in old rat with cognitive deficit. Biochem Biophys Res Commun. 312(4): 867-72.Wang TH, et al. (2008) Effects of pcDNA3-beta-NGF gene-modified BMSC on the rat model of Parkinson's disease. J Mol Neurosci. 35(2): 161-9. Perrard MH, et al. (2009) Redundancy of the effect of TGFbeta1 and beta-NGF on the second meiotic division of rat spermatocytes. Microsc Res Tech. 72(8): 596-602.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/ngf-ngfb-beta-ngf/258413>