

Rat NGF ELISA Kit | NGF elisa kit

NGF Rat ELISA Kit

CATALOG # AAA58930	REACTIVITY Rat	APPLICATIONS ELISA
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PRODUCT SYNONYMS

NGF; NGF Rat ELISA Kit; Rat NGF; NGF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Assay Type	Sandwich
Samples	Rat serum, body fluids, tissue lysates or cell culture supernatants
Detection Range	15.6 pg/ml-1000 pg/ml
Sensitivity	< 1 pg/ml
Applicable Applications for NGF elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES

Typical Data & Standard Curve

Results of a typical standard run of a Rat NGF ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	Pg/ml	0	15.6	31.2	62.5	125	250	500	1000
Y	OD450	0.046	0.085	0.127	0.193	0.356	0.622	1.185	2.379

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NGF elisa kit

Background: Nerve growth factor (NGF) is a polypeptide involved in the regulation of growth and differentiation of sympathetic and certain sensory neurons. NGF consists of 3 types of subunits, alpha, beta and gamma, which specifically interact to form a 7S, approximately 130,000-molecular weight complex. It is mainly expressed in Sertoli and interstitial cells. The proforms of NGF are secreted and cleaved extracellularly by the serine protease plasmin and by selective matrix metalloproteinases. NGF is important for the growth, maintenance, and survival of certain target neurons (nerve cells). It also functions as a signaling molecule.

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-NGF polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-NGF polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the NGF amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of NGF can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	34192369
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NCBI GeneID	4803
UniProt Accession #	P01138; Q6FHA0; Q96P60; Q9P2Q8; Q9UKL8; A1A4E5
Molecular Weight	26,959 Da
NCBI Official Full Name	NGF protein
NCBI Official Synonym Full Names	nerve growth factor (beta polypeptide)
NCBI Official Symbol	NGF
NCBI Official Synonym Symbols	NGFB; HSAN5; Beta-NGF
NCBI Protein Information	beta-nerve growth factor; nerve growth factor, beta subunit
UniProt Protein Name	Beta-nerve growth factor
UniProt Gene Name	NGF
UniProt Synonym Gene Names	NGFB; Beta-NGF
UniProt Entry Name	NGF_HUMAN

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://www.aaabiotech.com/rat-elisa-kits/ngf/58930>