

## Rat NGF (NGF beta) ELISA Kit (2 plates)

**Catalogue No.:** BEK-2077-2P  
**Description:** For a faster assay without compromising on sensitivity, try our NGF Rapid ELISA kit (BEK-2214-2P)!

The rat NGF Kit is a sandwich ELISA. The capture antibody is a monoclonal rat NGF antibody pre-coated onto the 96-well strip plates provided in the kit. Rat test samples and standards of known NGF concentration are added to these wells and allowed to complex with the bound NGF antibody. A biotinylated rat NGF polyclonal antibody is then added. This detection antibody binds to the antigen thus completing the sandwich. After washing, an enzyme Avidin-Biotin-Peroxidase complex (ABC) is added which binds to the second antibody. The peroxidase substrate TMB is added to induce a coloured reaction product. The intensity of this coloured product is directly proportional to the concentration of NGF present in the samples. The purpose of this kit is the in-vitro quantitative determination of rat NGF in samples such as sera and cell culture supernates. This kit has been configured for research use only and is not to be used in diagnostic or clinical procedures.

**Batch No.:** See product labels

**Antigen:** FUNCTION: Nerve growth factor is important for the development and maintenance of the sympathetic and sensory nervous systems. It stimulates division and differentiation of sympathetic and embryonic sensory neurons. SUBUNIT: Homodimer, associated by noncovalent forces. SUBCELLULAR LOCATION: Secreted protein.

**Other Names:** Nerve growth factor; beta-NGF;

**Accession:** P25427 NGF\_RAT;

**Specificity:** Rat/mouse NGF/NGF beta

**Cross-reactivity:** The monoclonal used in this ELISA reacts with rat and mouse NGF but does not detect human NGF, thus this kit does show cross reactivity with mouse and potentially other rodent NGF proteins but shows less than 0.1% cross reactivity with human NGF

**Storage:** Store at 2-8C

**Kit components:** The ELISA kit box contains 2 x 96-well pre-coated strip plates, protein standards, detection reagents, substrate buffer and detailed protocols.

**Range:** 15.6 pg/mL - 1,000 pg/mL

**Sensitivity:** < 1 pg/ml

**Kit protocol:** Please refer to our online product listing for current protocol/MSDS versions.

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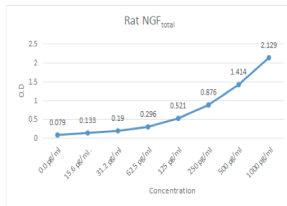
FOR RESEARCH USE ONLY

## Rat NGF (NGF beta) ELISA Kit (2 plates)

IX: Typical Standard Curve (for reference only, not to be used for actual data)

Concentration pg/ml	0.0 pg/ml	15.6 pg/ml	31.2 pg/ml	62.5 pg/ml	125 pg/ml	250 pg/ml	500 pg/ml	1000 pg/ml
O.D.	0.079	0.133	0.190	0.266	0.521	0.876	1.414	2.129

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



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