

**Datasheet for KOA0278****Rat NGF - NGF beta ELISA Kit****Overview**

|                      |                                                 |
|----------------------|-------------------------------------------------|
| <b>Description:</b>  | Rat NGF/NGF beta AccuSignal ELISA Kit - KOA0278 |
| <b>Item No.:</b>     | KOA0278                                         |
| <b>Size:</b>         | 1 Kit                                           |
| <b>Applications:</b> | ELISA                                           |
| <b>Reactivity:</b>   | Rat                                             |
| <b>Range:</b>        | 15.6 pg/ml - 1000 pg/ml                         |

**Product Details**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>         | Nerve growth factor(NGF) is a polypeptide involved in the regulation of growth and differentiation of sympathetic and certain sensory neurons. NGF is thought to have a profound effect on the development and maintenance of sympathetic and embryonic sensory neurones. 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. NGF, which is expressed by inflammatory cells and effects changes that lead to increased neural responsiveness, could be a pivotal mediator in allergic rhinitis. |
| <b>Synonyms:</b>           | Beta nerve growth factor, Beta NGF, HSAN5, MGC161426, MGC161428, Nerve growth factor (beta polypeptide), Nerve growth factor beta polypeptide, Nerve growth factor beta subunit, NGFB, NID69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Detection Kit Type:</b> | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Detection Range:</b>    | 15.6 pg/ml - 1000 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Sensitivity:</b>        | <1 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

**Target Details**

|                    |                                                                       |
|--------------------|-----------------------------------------------------------------------|
| <b>Gene Name:</b>  | NGF                                                                   |
| <b>Reactivity:</b> | Rat                                                                   |
| <b>Immunogen:</b>  | Expression system for standard: E.coli; Immunogen sequence: S122-G241 |

**Purity/Specificity:** Natural and recombinant rat NGF. There is no detectable cross-reactivity with other relevant proteins.

**Relevant Links:**

- [UniProtKB - P25427](#)
- [NCBI - NP\\_001263984.1](#)
- [GeneID - 310738](#)
- [KOA0278 Protocol](#)

## Application Details

**Tested Applications:** ELISA

**Application Note:** Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml, 15.6pg/ml rat NGF standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of rat cell culture supernatants or serum to each empty well. It is recommended that each rat NGF standard solution and each sample be measured in duplicate.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 15.6 pg/ml-1000 pg/ml

**Other:** DOE:  
2-8° C - 11/11/2022  
-20° C - 05/12/2023

## Formulation

**Concentration:** 1 Kit

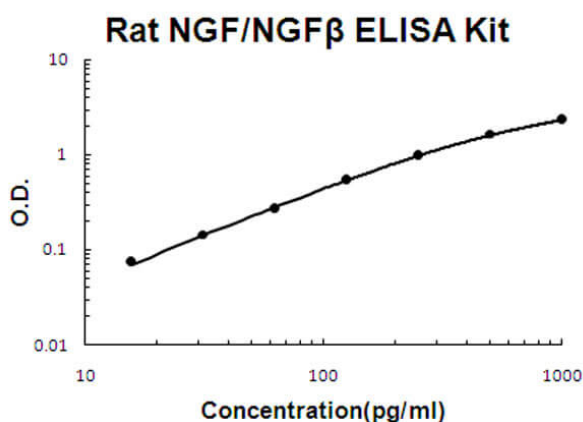
## Shipping & Handling

**Shipping Condition:** Wet Ice

**Storage Condition:** Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

**Expiration:** See kit insert for complete instructions.

## Images



### ELISA

Rat NGF/NGF beta AccuSignal ELISA Kit standard curve.  
Assay Range: 15.6pg/ml-1000pg/ml. Sensitivity: <1pg/ml.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.