

## Human NGF Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0199	<b>Applications</b>	ELISA
<b>Synonyms</b>	Beta-NGF, HSNAN5, NGFB, NGF-B		

### Kit components & Storage

Title	Specifications	Storage
Human NGF Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human NGF Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

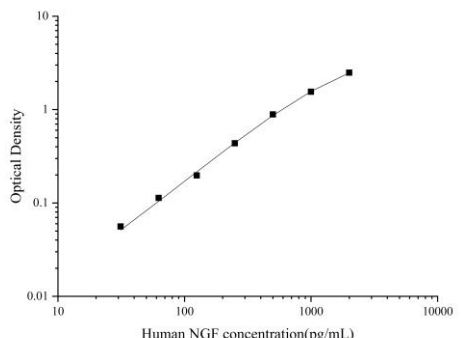
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0199)	
		Human NGF Capture Antibody	Human NGF Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human NGF protein	Recombinant Human NGF protein
	Swissprot	P01138	
Product details	Reactivity	Human	Human
	Host	Mouse	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A or G	Antigen Affinity
	Specificity	Detects Human NGF in ELISAs.	

## Applications

### Human NGF Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images														
ELISA Capture	0.5-4µg/mL	Human NGF Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Human NGF concentration (pg/mL). The y-axis (Optical Density) ranges from 0.01 to 10, and the x-axis (Human NGF concentration) ranges from 10 to 10000. Six data points are plotted, showing a clear upward trend that is linear on this scale.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human NGF concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>0.05</td> </tr> <tr> <td>50</td> <td>0.1</td> </tr> <tr> <td>100</td> <td>0.2</td> </tr> <tr> <td>200</td> <td>0.4</td> </tr> <tr> <td>500</td> <td>0.8</td> </tr> <tr> <td>1000</td> <td>1.5</td> </tr> </tbody> </table>	Human NGF concentration (pg/mL)	Optical Density	20	0.05	50	0.1	100	0.2	200	0.4	500	0.8	1000	1.5
Human NGF concentration (pg/mL)	Optical Density																
20	0.05																
50	0.1																
100	0.2																
200	0.4																
500	0.8																
1000	1.5																
ELISA Detection	1:1000-1:10000	Human NGF Detection Antibody (Biotin)															

**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## Background

This gene is a member of the NGF-beta family and encodes a secreted protein which homodimerizes and is incorporated into a larger complex. This protein has nerve growth stimulating activity and the complex is involved in the regulation of growth and the differentiation of sympathetic and certain sensory neurons. Mutations in this gene have been associated with hereditary sensory and autonomic neuropathy, type 5 (HSAN5), and dysregulation of this gene's expression is associated with allergic rhinitis.