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Datasheet for ABIN411336 Nerve Growth Factor ELISA Kit

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Overview

Quantity:	96 tests
Target:	Nerve Growth Factor (NGF)
Binding Specificity:	AA 122-241
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse NGF/NGF beta
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO
	Immunogen sequence: S122-G241
Specificity:	Expression system for standard: NSO
	Immunogen sequence: S122-G241
Cross-Reactivity (Details):	There is no detectable cross-reactivity with BDGF, GDNF, CNTF, NT3 and NT4.

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Product Details

Sensitivity:	<1pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

Target:	Nerve Growth Factor (NGF)
Alternative Name:	NGF (NGF Products)
Background:	Protein Function: Nerve growth factor is important for the development and maintenance of the
	sympathetic and sensory nervous systems. Extracellular ligand for the NTRK1 and NGFR
	receptors, activates cellular signaling cascades through those receptor tyrosine kinase to
	regulate neuronal proliferation, differentiation and survival. Inhibits metalloproteinase
	dependent proteolysis of platelet glycoprotein VI
	Background: 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.
	Synonyms: Beta-nerve growth factor,Beta-NGF,Ngf,Ngfb,
	Full Gene Name: Beta-nerve growth factor
	Cellular Localisation: Secreted.
Gene ID:	18049
UniProt:	P01139
Pathways:	Regulation of Cell Size
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well

assay was recommended for both standard and sample testing.

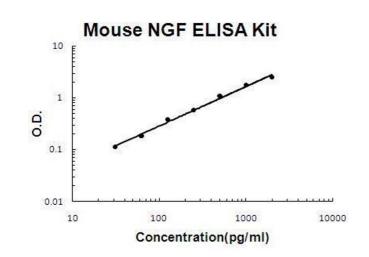
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Comment:	Sequence similarities: Belongs to the NGF-beta family.
Plate:	Pre-coated
Protocol:	mouse NGF ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay
	technology. A monoclonal antibody from rat specific for NGF has been precoated onto 96-well
	plates. Standards(NSO, S122-G241) and test samples are added to the wells, a biotinylated
	detection polyclonal antibody from goat specific for NGF is added subsequently and then
	followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and
	unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was 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 mouse NGF amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL,
	62.5pg/mL, 31.2pg/mL mouse NGF standard solutions into the precoated 96-well plate. Add
	0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each
	properly diluted sample of mouse cell culture supernatants or serum to each empty well. See
	"Sample Dilution Guideline" above for details. It is recommended that each mouse NGF
	standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 136, Standard deviation: 5.3, CV(%): 3.9
	• Sample 2: n=16, Mean(pg/ml): 727, Standard deviation: 41.44, CV(%): 5.7
	 Sample 3: n=16, Mean(pg/ml): 1326, Standard deviation: 83.54, CV(%): 6.3,
	 Sample 1: n=24, Mean(pg/ml): 153, Standard deviation: 6.58, CV(%): 4.3
	 Sample 2: n=24, Mean(pg/ml): 839, Standard deviation: 53.7, CV(%): 6.4 Sample 2: n=24, Mean(ag/ml): 16.45, Standard deviation: 101.72, OV(%): 7.4
	 Sample 3: n=24, Mean(pg/ml): 1645, Standard deviation: 121.73, CV(%): 7.4
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months
Publications	
Product cited in:	Fernández, Baldassarro, Sivilia, Giardino, Calzà: "Inflammation severely alters thyroid hormone

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Vidart, Wajner, Leite, Manica, Schaan, Larsen, Maia: "N-acetylcysteine administration prevents nonthyroidal illness syndrome in patients with acute myocardial infarction: a randomized clinical trial." in: **The Journal of clinical endocrinology and metabolism**, Vol. 99, Issue 12, pp. 4537-45, (2014) (PubMed).

Images



ELISA

Image 1. Mouse NGF/NGF beta PicoKine ELISA Kit standard curve