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#### **NGFR ELISA Kit**





#### Overview

Quantity:	1 kit
Target:	NGFR
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5 pg/mL - 4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

### **Product Details**

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen	
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Characteristics:	Synonyms: CD271, CD271 antigen, Gp80 LNGFR, Low affinity nerve growth factor receptor, Low	

Synonyms: CD271, CD271 antigen, Gp80 LNGFR, Low affinity nerve growth factor receptor, Low affinity neurotrophin receptor p75NTR, Low-affinity nerve growth factor receptor, Nerve growth factor receptor, Nerve growth factor receptor TNFR superfamily member 16, NGF receptor, NGFR, p75 ICD, p75 ICD, p75 Neurotrophin receptor, p75NTR, TNFR Superfamily Member 16, TNFRSF16, TNR16\_HUMAN, Tumor necrosis factor receptor superfamily member 16 Background: Nerve growth factor receptor (NGFR) is also referred to as p75(NTR) because of its ability to bind at low affinity not only to NGF, but also other neurotrophins including brain-derived neurotrophic factor (BDNF), neurotrophin-3 and neurotrophin-4/5. The nerve growth

factor receptor gene is at human chromosome region 17q12-17q22, distal to the chromosome 17 breakpoint in acute leukemias. The neurotrophin receptor p75(NTR), a tumor necrosis factor receptor superfamily member expressed in hepatic stellate cells after fibrotic and cirrhotic liver injury in humans, is a regulator of liver repair. In mice, depletion of p75(NTR) exacerbated liver pathology and inhibited hepatocyte proliferation in vivo. In addition, it is showed that neurotrophins activate p75(NTR) to induce apoptosis through the induction of the sphingomyelin (SM) cycle and increased production of ceramide. Overexpression of p75(NTR) is also found to activate the SM pathway.

Gene Name: NGFR

Production: Natural and recombinant human TNFRSF16. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: sf21, Immunogen sequence: K29-N250

#### **Target Details**

Target:	NGFR	
Alternative Name:	TNFRSF16 - NGFR (NGFR Products)	
Gene ID:	4804	
NCBI Accession:	NP_002498	
UniProt:	P08138	
Pathways:	NF-kappaB Signaling, Neurotrophin Signaling Pathway, Carbohydrate Homeostasis, Growth	
	Factor Binding	

#### **Application Details**

**Application Notes:** 

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human TNFRSF16 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 human cell culture supernates, serum or plasma(heparin, EDTA, citrate) to each empty well. It is recommended that each human TNFRSF16 standard solution and each sample be measured in duplicate. Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 62.5pg/mL-4000pg/mL

Sample Volume:

100 µL

# **Application Details**

Plate:	Pre-coated
Restrictions:	For Research Use only

# Handling

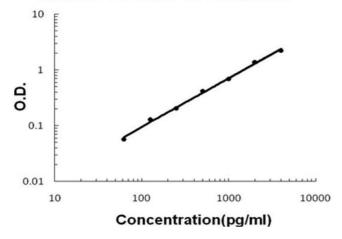
Storage:	RT,4 °C,-20 °C	

Storage Comment:

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.

#### **Images**

## **Human TNFRSF16 ELISA Kit**



#### **ELISA**

Image 1. Human TNFRSF16/NGFR Accusignal ELISA Kit Human TNFRSF16/NGFR AccuSignal ELISA Kit standard curve. Assay Range: 62.5pg/ml-4000pg/ml. Sensitivity: <10pg/ml.