

Human CNTFR alpha Alexa Fluor® 532-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF-303-NAX

100 µg

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human CNTF Rα in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human CNTF R α Gln23-Pro346 (predicted) Accession # P26992
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS		
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.		
Neutralization	Optimal dilution of this antibody should be experimentally determined.	
Western Blot	Optimal dilution of this antibody should be experimentally determined.	

PREPARATION AND STORAGE	
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

The high-affinity CNTF receptor complex, which mediates the biological action of CNTF, contains three proteins: the ligand-binding α subunit (CNTF R α), and the two signal-transducing proteins LIF R β and gp130. Whereas LIF R β and gp130 are widely expressed in many cell types, the expression of CNTF R α is restricted to the central and peripheral nervous systems. cDNAs encoding human and rat CNTF R α share 94% amino acid (aa) sequence identity. Human CNTF R α cDNA encodes a 372 aa precursor protein with a 22 aa residue signal peptide and four potential glycoslyation sites. CNTF R α differs from other cytokine receptors in that it lacks transmembrane and cytoplasmic domains and is anchored to cell membranes by a glycosylphosphatidylinositol (GPI) linkage. Similar to other GPI-linked proteins, soluble CNTF receptor α (CNTF sR α) can be released from the cell surface by phosphatidylinositol-specific phospholipase C. CNTF sR α can be released from skeletal muscle in response to peripheral nerve injury and high concentrations of CNTF sR α have also been detected in human cerebrospinal fluid. CNTF sR α binds CNTF in solution and the complex can act on cells that express only LIF R β and gp130 but not CNTF R α .

PRODUCT SPECIFIC NOTICES

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