

Datasheet: AAR21

BATCH NUMBER 162275

Description:	RABBIT ANTI RAT CNTF
Specificity:	CNTF
Other names:	CILIARY NEUROTROPHIC FACTOR
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA	▪			0.5 - 2.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1ug/ml - 0.2ug/ml
Immunofluorescence	▪			
Functional Assays	▪			20ng/ml - 50ng/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own systems with the appropriate negative/positive controls.

Target Species	Rat
Species Cross Reactivity	<p>Reacts with: Mouse</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
Product Form	Purified IgG - lyophilized
Reconstitution	Reconstitute with 0.1 ml distilled water.

The addition of 0.09% sodium azide is recommended for long term storage.

N.B. For functional studies do not add sodium azide.

Antiserum Preparation Antisera to rat CNTF were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.

Buffer Solution Phosphate buffered saline

Preservative Stabilisers None present

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0 mg/ml after reconstitution

Immunogen Recombinant rat CNTF.

External Database Links

UniProt:

[P20294](#) [Related reagents](#)

Entrez Gene:

[25707](#) Cntf [Related reagents](#)

RRID AB_2276485

Specificity **Rabbit anti Rat CNTF antibody** recognizes rat ciliary neurotrophic factor (CNTF)..

Rat CNTF is a 22.7 kDa neuroregulatory cytokine which is found primarily in peripheral nerve tissue. CNTF promotes the survival and differentiation of neurons and other neuronal cell types.

References

1. Fischer, D. *et al.* (2008) Crystallins of the beta/gamma-superfamily mimic the effects of lens injury and promote axon regeneration. [Mol Cell Neurosci. 37: 471-9.](#)
2. Leibinger, M. *et al.* (2009) Neuroprotective and axon growth-promoting effects following inflammatory stimulation on mature retinal ganglion cells in mice depend on ciliary neurotrophic factor and leukemia inhibitory factor. [J Neurosci. 29: 14334-41.](#)
3. Sengottuvel, V. *et al.* (2011) Taxol facilitates axon regeneration in the mature CNS. [J Neurosci. 31: 2688-99.](#)
4. Müller, A. *et al.* (2007) Astrocyte-derived CNTF switches mature RGCs to a regenerative state following inflammatory stimulation. [Brain. 130: 3308-20.](#)
5. Hauk, T.G. *et al.* (2010) Stimulation of axon regeneration in the mature optic nerve by intravitreal application of the toll-like receptor 2 agonist Pam3Cys. [Invest Ophthalmol Vis Sci. 51: 459-64.](#)
6. Askvig, J.M. *et al.* (2012) Neuronal activity and axonal sprouting differentially regulate CNTF and CNTF receptor complex in the rat supraoptic nucleus. [Exp Neurol. 233 \(1\):](#)

[243-52.](#)

Storage	Prior to reconstitution store at -20°C. After reconstitution store at -20°C. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	6 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10162 available at: https://www.bio-rad-antibodies.com/SDS/AAR21 10162
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
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