

## Datasheet: AAR21

<b>Description:</b>	RABBIT ANTI RAT CNTF
<b>Specificity:</b>	CNTF
<b>Other names:</b>	CILIARY NEUROTROPHIC FACTOR
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Rat
<b>Species Cross Reactivity</b>	<p>Reacts with: Mouse</p> <p><b>N.B.</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>
<b>Product Form</b>	Purified IgG - lyophilized
<b>Reconstitution</b>	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. Müller, A. *et al.* (2007) Astrocyte-derived CNTF switches mature RGCs to a regenerative state following inflammatory stimulation. [Brain. 130: 3308-20.](#)
2. 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.](#)
3. 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.](#)
4. 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.](#)
5. Sengottuvel, V. *et al.* (2011) Taxol facilitates axon regeneration in the mature CNS. [J Neurosci. 31: 2688-99.](#)
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** 12 months from date of despatch

---

**Health And Safety Information** Material Safety Datasheet documentation #10294 available at:  
<https://www.bio-rad-antibodies.com/SDS/AAR21>  
10294

---

**Regulatory** For research purposes only

---

## Related Products

### Recommended Secondary Antibodies

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

### Recommended Useful Reagents

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M402194:220718'

**Printed on 18 Jan 2024**

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)