

Datasheet: AAR21

**BATCH NUMBER 161303**

<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.

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

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**Buffer Solution** Phosphate buffered saline

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**Preservative Stabilisers** None present

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**Carrier Free** Yes

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

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**Immunogen** Recombinant rat CNTF.

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**External Database Links**

**UniProt:**

[P20294](#)    [Related reagents](#)

**Entrez Gene:**

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

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**RRID** AB\_2276485

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**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.

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**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.](#)

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<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10162 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AAR21">https://www.bio-rad-antibodies.com/SDS/AAR21</a> 10162
<b>Regulatory</b>	For research purposes only

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## 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 \(STAR209P\)](#)

<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>
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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](https://bio-rad-antibodies.com/datasheets)  
'M391110:211008'

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