

## 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>	Reacts with: Mouse <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - lyophilised
<b>Reconstitution</b>	Reconstitute with 0.1 ml distilled water.  The addition of 0.09% sodium azide is recommended for long term storage.  <b>N.B.</b> For functional studies do not add sodium azide.
<b>Antiserum Preparation</b>	Antisera to rat CNTF were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml after reconstitution
<b>Immunogen</b>	<a href="#">Recombinant rat CNTF</a>
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P20294</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">25707</a>   Cntf   <a href="#">Related reagents</a></p>
<b>Specificity</b>	<p><b>Rabbit anti Rat CNTF antibody</b> recognizes rat ciliary neurotrophic factor (CNTF)..</p> <p>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.</p>
<b>ELISA</b>	This antibody may be used in an indirect ELISA with <a href="#">PRP26</a> as the standard.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Fischer, D. <i>et al.</i> (2008) Crystallins of the beta/gamma-superfamily mimic the effects of lens injury and promote axon regeneration. <a href="#">Mol Cell Neurosci. 37: 471-9.</a></li> <li>2. Leibinger, M. <i>et al.</i> (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. <a href="#">J Neurosci. 29: 14334-41.</a></li> <li>3. Sengottuvel, V. <i>et al.</i> (2011) Taxol facilitates axon regeneration in the mature CNS. <a href="#">J Neurosci. 31: 2688-99.</a></li> <li>4. Müller, A. <i>et al.</i> (2007) Astrocyte-derived CNTF switches mature RGCs to a regenerative state following inflammatory stimulation. <a href="#">Brain. 130: 3308-20.</a></li> <li>5. Hauk, T.G. <i>et al.</i> (2010) Stimulation of axon regeneration in the mature optic nerve by intravitreal application of the toll-like receptor 2 agonist Pam3Cys. <a href="#">Invest Ophthalmol Vis Sci. 51: 459-64.</a></li> <li>6. Askvig, J.M. <i>et al.</i> (2012) Neuronal activity and axonal sprouting differentially regulate CNTF and CNTF receptor complex in the rat supraoptic nucleus. <a href="#">Exp Neurol. 233 (1): 243-52.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at +4°C. Following reconstitution store at -20°C.</p> <p>This product should be stored undiluted.</p> <p>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.</p>
<b>Shelf Life</b>	12 months from date of reconstitution.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10162 available at: 10162: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

## Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[DyLight®680](#), [DyLight®800](#)

## 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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