

Datasheet: AAR21B

Description:	RABBIT ANTI RAT CNTF:Biotin
Specificity:	CNTF
Other names:	CILIARY NEUROTROPHIC FACTOR
Format:	Biotin
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

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	■			0.25ug/ml - 1.0ug/ml
Western Blotting	■			0.1ug/ml - 0.2ug/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 system using appropriate negative/positive controls.

Target Species	Rat
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG conjugated to Biotin - lyophilised
Reconstitution	Reconstitute with 0.5 ml sterile PBS containing 0.1% Bovine Serum Albumin. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. The addition of 0.09% sodium azide is recommended for long term storage

Antiserum Preparation Antiserum to rat CNTF was raised by repeated immunisation of with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution	Phosphate buffered saline
Preservative	None Present

Stabilisers

Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
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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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Specificity	Rabbit anti Rat CNTF antibody recognizes rat ciliary neurotrophic factor (CNTF).. Rat CNTF is a 22.7kD 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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ELISA	This antibody may be used in a direct ELISA system or as a detection reagent in a sandwich ELISA together with AAR21 as the capture reagent and PRP26 as the standard.
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References	<ol style="list-style-type: none">1. Fischer, D. <i>et al.</i> (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. <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. J Neurosci. 29: 14334-41.3. Sengottuvel, V. <i>et al.</i> (2011) Taxol facilitates axon regeneration in the mature CNS. J Neurosci. 31: 2688-99.4. Müller, A. <i>et al.</i> (2007) Astrocyte-derived CNTF switches mature RGCs to a regenerative state following inflammatory stimulation. Brain. 130: 3308-20.5. 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. Invest Ophthalmol Vis Sci. 51: 459-64.6. 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. Exp Neurol. 233 (1): 243-52.
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Storage	Prior to reconstitution store at +4°C. Following 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.
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Shelf Life	12 months from date of reconstitution.
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Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10162 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
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Regulatory	For research purposes only
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