

## Datasheet: AAR15B BATCH NUMBER 160823

Description:	RABBIT ANTI RAT INTERLEUKIN-1 BETA:Biotin
Specificity:	IL-1 BETA
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 <u>www.bio-</u>					
	rad-antibodies.com/protocols.					
		Yes	Νο	Not Determined	Suggested Dilution	
	Flow Cytometry					
	Immunohistology - Frozen					
	Immunohistology - Paraffin	-				
	ELISA				0.25 - 1.0ug/ml	
	Western Blotting	•			0.1 - 0.2ug/ml	
Where this antibody has not been tested for use in a particular technique this						
	necessarily exclude its use in such procedures. Suggested working dilutions are giv					
	•		•			
	a guide only. It is recommended that the user titrates the antibody for use in their or system using the appropriate negative/positive controls.					
	system using the appropr	late nega	uve/positiv			
Target Species	Rat					
Product Form	Purified IgG conjugated t	o Biotin -	lyophilised	I		
Reconstitution	Reconstitute with 0.5ml 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-Ra	ad recomm	nend that t	he vial is gently mixed	d after reconstitution.	
	For long term storage the addition of 0.09% sodium azide is recommended. N.B. For functional studies do not add sodium azide					
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Antiserum Preparation	Antisera to rat IL-1 beta		• •		•••	
	purified antigen. Purified	igG was p	prepared fr	om whole serum by a	minity chromatography.	
Buffer Solution	Phosphate buffered salin	e				

Preservative Stabilisers	None Present	
Carrier Free	Yes	
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml after reconstitution	
Immunogen	Recombinant rat IL-1 beta ( <u>PRP23</u> ).	
External Database Links	UniProt:Q63264Related reagentsEntrez Gene:24494II1bRelated reagents	
RRID	AB_2233647	
Specificity	<b>Rabbit anti Rat Interleukin-1 beta antibody</b> recognizes rat IL 152 amino acid active pro-inflammatory cytokine produced with acid pro-peptide region. IL-1β has a broad mode of action, synthesis, neutrophil, T cell and B cell activation and collagen s	n an additional 116 amino , stimulating prostaglandin
ELISA	This product may be used in a direct ELISA or as a detection r ELISA together with <u>AAR15G</u> as the capture reagent and <u>PRP</u>	•
References	<ol> <li>Girard, S. (2008) Pro-inflammatory disequilibrium of the IL-1 experimental model of perinatal brain damages induced by lipol hypoxia-ischemia. <u>Cytokine. 43: 54-62.</u></li> <li>Glatz, T. <i>et al.</i> (2010) Peroxisome-proliferator-activated rece peroxisome-proliferator-activated receptors beta/delta and the receptor antagonist expression by pioglitazone in ischaemic bratist <u>1488-97.</u></li> <li>Mahmood, J. <i>et al.</i> (2011) Mitigation of radiation-induced lun EUK-207. <u>Int J Radiat Biol. 87: 889-901.</u></li> <li>Weksler-Zangen, S. <i>et al.</i> (2008) Impaired glucose-stimulate coupled with exocrine pancreatic lesions in the Cohen diabetic 5. Mahmood, J. <i>et al.</i> (2013) Mitigation of radiation-induced lun genistein: effects in adolescent rats. <u>Radiat Res. 179 (2): 125-3</u></li> <li>Cho, G.S. <i>et al.</i> (2013) N-Methyl-D-aspartate receptor antag MK-801 attenuate the cerebral infarct accelerated by <i>intracorpu</i> lipopolysaccharides. <u>Neurosci Lett. 538: 9-14.</u></li> <li>Savard, A. <i>et al.</i> (2013) Involvement of neuronal IL-1β in acc model of neonatal encephalopathy. <u>J Neuroinflammation. 10: 1</u></li> <li>Aharon-Hananel G <i>et al.</i> (2015) Antidiabetic Effect of Interlete Through β-Cell Protection in the Cohen Diabetes-Sensitive Rat 9. Bergeron, J. <i>et al.</i> (2016) Activation of the IL-1β/CXCL1/MM chorioamnionitis induced by inactivated Group B <i>Streptococcus</i></li> </ol>	ppolysaccharide and ptors gamma and regulation of interleukin 1 ain. <u>J Hypertens. 28:</u> og injury by genistein and ed insulin secretion is rat. <u>Diabetes. 57: 279-87.</u> og injury with EUK-207 and <u>34.</u> ponists memantine and <i>us callosum</i> injection of quired brain lesions in a rat <u>10.</u> ukin-1β Antibody Therapy t. <u>Diabetes. 64 (5): 1780-5.</u> P-10 axis in

			<ul> <li>10. Alizadeh A <i>et al.</i> (2017) Neuregulin-1 positively modulates glial response and improves neurological recovery following traumatic spinal cord injury. <u>Glia. Apr 29. [Epub ahead of print]</u></li> <li>11. Calveley, V.L. <i>et al.</i> (2010) Genistein can mitigate the effect of radiation on rat lung tissue. <u>Radiat Res. 173 (5): 602-11.</u></li> <li>12. Miyai, H. <i>et al.</i> (2017) Topical application of ointment containing 0.5% green tea catechins suppresses tongue oxidative stress in 5-fluorouracil administered rats. <u>Arch Oral Biol. 82: 247-55.</u></li> <li>13. Kataria, H. <i>et al.</i> (2017) Neuregulin-1 promotes remyelination and fosters a pro-regenerative inflammatory response in focal demyelinating lesions of the spinal cord. <u>Glia. Nov 17 [Epub ahead of print].</u></li> <li>14. Dyck, S. <i>et al.</i> (2018) Perturbing chondroitin sulfate proteoglycan signaling through LAR and PTPo receptors promotes a beneficial inflammatory response following spinal cord injury. <u>J Neuroinflammation. 15 (1): 90.</u></li> </ul>					
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 Health And Safety Information			12 months from date of despatch Material Safety Datasheet documentation #10162 available at: <u>https://www.bio-rad-antibodies.com/SDS/AAR15B</u> 10162					
Regulatory For			For resea	arch purposes				
Ame		Fax: +1 919 878 Email: antibody_	3751 _sales_us@bio-		Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bic		Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com	
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