

Datasheet: AAR15G **BATCH NUMBER 155172**

Description:	RABBIT ANTI RAT INTERLEUKIN-1 BETA
Specificity:	IL-1 BETA
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.biorad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			•	
Immunohistology - Frozen			•	
Immunohistology - Paraffin				
ELISA				0.5ug/ml - 2.0ug/ml
Immunoprecipitation			•	
Western Blotting				0.1ug/ml - 0.2ug/ml
Functional Assays				0.09ug/ml - 0.14ug/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 the appropriate negative/positive controls.

Target Species	Rat
Product Form	Purified IgG - lyophilised
Reconstitution	Reconstitute with 0.1ml distilled water Care should be taken during reconstitution as the protein may appear as a f

film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed 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

Antiserum Preparation Antisera to rat IL-1 beta were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared by antigen 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 IL-1 beta (<u>PRP23</u>).	
External Database Links	UniProt: Q63264 Related reagents Entrez Gene: 24494 II1b Related reagents	
RRID	AB_2264733	
Specificity	Rabbit anti Rat Interleukin-1 beta antibody recognizes rat II 152 amino acid active pro-inflammatory cytokine produced wit acid pro-peptide region. IL-1β has a broad mode of action synthesis, neutrophil, T cell and B cell activation and collagen	h an additional 116 amino n, stimulating prostaglandin
ELISA	This product may be used in an indirect ELISA or as a capture ELISA together with <u>AAR15B</u> as the detection reagent and <u>PR</u>	•
References	 Girard, S. (2008) Pro-inflammatory disequilibrium of the IL-1 experimental model of perinatal brain damages induced by liped hypoxia-ischemia. Cytokine. 43: 54-62. Glatz, T. et al. (2010) Peroxisome-proliferator-activated receptor peroxisome-proliferator-activated receptors beta/delta and the receptor antagonist expression by pioglitazone in ischaemic braids-97. Mahmood, J. et al. (2011) Mitigation of radiation-induced lur EUK-207. Int J Radiat Biol. 87: 889-901. Weksler-Zangen, S. et al. (2008) Impaired glucose-stimulate coupled with exocrine pancreatic lesions in the Cohen diabetic 5. Mahmood, J. et al. (2013) Mitigation of radiation-induced lur genistein: effects in adolescent rats. Radiat Res. 179 (2): 125-6. Cho, G.S. et al. (2013) N-Methyl-D-aspartate receptor antagon MK-801 attenuate the cerebral infarct accelerated by intracorp lipopolysaccharides. Neurosci Lett. 538: 9-14. Savard, A. et al. (2013) Involvement of neuronal IL-1β in accorded of neonatal encephalopathy. J Neuroinflammation. 10: 20. doi: 10.0000/microsci. 10.0000 	eptors gamma and regulation of interleukin 1 rain. J Hypertens. 28: Ing injury by genistein and ed insulin secretion is crat. Diabetes. 57: 279-87. Ing injury with EUK-207 and 34. Igonists memantine and rus callosum injection of equired brain lesions in a rat

8. Aharon-Hananel G *et al.* (2015) Antidiabetic Effect of Interleukin-1β Antibody Therapy Through β-Cell Protection in the Cohen Diabetes-Sensitive Rat. <u>Diabetes. 64 (5): 1780-5.</u>

- 9. Bergeron, J. *et al.* (2016) Activation of the IL-1β/CXCL1/MMP-10 axis in chorioamnionitis induced by inactivated Group B *Streptococcus*. Placenta. 47: 116-23.
- 10. Alizadeh A *et al.* (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>
- 11. Calveley, V.L. *et al.* (2010) Genistein can mitigate the effect of radiation on rat lung tissue. Radiat Res. 173 (5): 602-11.
- 12. Miyai, H. *et al.* (2017) Topical application of ointment containing 0.5% green tea catechins suppresses tongue oxidative stress in 5-fluorouracil administered rats. <u>Arch Oral Biol.</u> 82: 247-55.
- 13. Kataria, H. *et al.* (2017) Neuregulin-1 promotes remyelination and fosters a pro-regenerative inflammatory response in focal demyelinating lesions of the spinal cord. Glia. Nov 17 [Epub ahead of print].
- 14. Dyck, S. *et al.* (2018) Perturbing chondroitin sulfate proteoglycan signaling through LAR and PTPσ receptors promotes a beneficial inflammatory response following spinal cord injury. J Neuroinflammation. 15 (1): 90.

Stora	age
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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 #10162 available at: https://www.bio-rad-antibodies.com/SDS/AAR15G 10162	
Regulatory	For research purposes only	

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (Fc) (STAR121...) Biotin, FITC, HRP

Goat Anti Rabbit IgG (H/L) (STAR124...) HRP

Sheep Anti Rabbit IgG (STAR35...) RPE

Recommended Useful Reagents

TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739

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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 'M372434:200706'

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