

## Datasheet: AAM36

<b>Description:</b>	RABBIT ANTI MOUSE INTERLEUKIN-4
<b>Specificity:</b>	IL-4
<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	▪			0.5ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1ug/ml - 0.2ug/ml
Functional Assays	▪			0.25ug/ml - 0.40ug/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.

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified IgG - lyophilized
<b>Reconstitution</b>	<p>Reconstitute with 0.1ml distilled water.</p> <p>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. For long term storage the addition of 0.09% sodium azide is recommended..NB: For functional studies do not add azide.</p>
<b>Antiserum Preparation</b>	Antisera to mouse IL-4 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>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml after reconstitution.
<b>Immunogen</b>	<a href="#">Recombinant mouse IL-4</a>
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P07750</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">16189</a>    II4    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	II-4
<b>RRID</b>	AB_324526
<b>Specificity</b>	<p><b>Rabbit anti Mouse Interleukin-4 antibody</b> recognizes mouse interleukin-4 (IL-4), also known as B-cell stimulatory factor 1, a 120 amino acid pleiotropic cytokine cleaved from a 140 amino acid precursor which interacts with multiple cell lineages, including T cells, fibroblasts and macrophages (<a href="#">Crawford et al. 1987</a>).</p> <p>Interleukin-4 is one of the most important factors involved in B cell IgG1 and IgE class switching (<a href="#">Winter et al. 1987</a>). IL-4 acts as a regulator of low affinity Fc receptor for IgE (CD23) expression on both lymphocytes and monocytes (<a href="#">Miyajima et al. 1991</a>, <a href="#">Hudak et al. 1987</a>). IL-4 acts through binding to it's cognate receptor CD124, a receptor which also binds the related cytokine IL-13.</p> <p>Interleukin -4 plays an important role in the alternative activation of murine macrophages as indicated by the ability to potently up-regulate the expression and activity of CD206, the macrophage mannose receptor (<a href="#">Stein et al. 1992</a>).</p>
<b>ELISA</b>	AAM36 may be used in an indirect ELISA with <a href="#">PMP81</a> as the standard.
<b>References</b>	<ol style="list-style-type: none"> <li>de Barros, V.E.D. <i>et al.</i> (2011) An experimental model of meningoencephalomyelitis by Rocio flavivirus in BALB/c mice: inflammatory response, cytokine production, and histopathology. <a href="#">Am J Trop Med Hyg. 85 (2): 363-73.</a></li> <li>Kim, S.R. <i>et al.</i> (2013) Endoplasmic reticulum stress influences bronchial asthma pathogenesis by modulating nuclear factor κB activation. <a href="#">J Allergy Clin Immunol. pii: S0091-6749(13)01382-1.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at -20°C.  After reconstitution store at -20°C.</p> <p>This product should be stored undiluted. Storage in frost-free freezers is not</p>

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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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10294 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AAM36">https://www.bio-rad-antibodies.com/SDS/AAM36</a> 10294
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<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 (H/L) (STAR124...) [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [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://www.bio-rad-antibodies.com/datasheets)  
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