

Datasheet: AAM36

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| Description: | RABBIT ANTI MOUSE INTERLEUKIN-4 |
| Specificity: | IL-4 |
| 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.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.

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| Target Species | Mouse |
| Product Form | Purified IgG - lyophilized |
| Reconstitution | <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> |
| Antiserum Preparation | Antisera to mouse IL-4 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography. |
| Buffer Solution | Phosphate buffered saline |

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| Preservative Stabilisers | None present |
| Carrier Free | Yes |
| Approx. Protein Concentrations | IgG concentration 1.0 mg/ml after reconstitution. |
| Immunogen | Recombinant mouse IL-4 |
| External Database Links | <p>UniProt: P07750 Related reagents</p> <p>Entrez Gene: 16189 II4 Related reagents</p> |
| Synonyms | Il-4 |
| RRID | AB_324526 |
| Specificity | <p>Rabbit anti Mouse Interleukin-4 antibody 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 (Crawford et al. 1987).</p> <p>Interleukin-4 is one of the most important factors involved in B cell IgG1 and IgE class switching (Winter et al. 1987). IL-4 acts as a regulator of low affinity Fc receptor for IgE (CD23) expression on both lymphocytes and monocytes (Miyajima et al. 1991, Hudak et al. 1987). 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 (Stein et al. 1992).</p> |
| ELISA | AAM36 may be used in an indirect ELISA with PMP81 as the standard. |
| References | <ol style="list-style-type: none"> 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. Am J Trop Med Hyg. 85 (2): 363-73. Kim, S.R. <i>et al.</i> (2013) Endoplasmic reticulum stress influences bronchial asthma pathogenesis by modulating nuclear factor κB activation. J Allergy Clin Immunol. pii: S0091-6749(13)01382-1. |
| Storage | <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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| Guarantee | 12 months from date of despatch |
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| Health And Safety Information | Material Safety Datasheet documentation #10294 available at: 10294: https://www.bio-rad-antibodies.com/uploads/MSDS/10294.pdf |
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| Regulatory | 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 \(STAR209P\)](#)

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| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | 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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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M402201:220718'

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