

Datasheet: AAM36

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.

Target Species	Mouse
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 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.
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
Preservative Stabilisers	None present
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml after reconstitution.

Immunogen	Recombinant mouse IL-4
External Database Links	UniProt: P07750 Related reagents Entrez Gene: 16189 IL4 Related reagents
Synonyms	IL-4
Specificity	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). 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 its cognate receptor CD124, a receptor which also binds the related cytokine IL-13. 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).
ELISA	AAM36 may be used in an indirect ELISA with PMP81 as the standard.
References	1. 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: 363-73. 2. 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	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.
Shelf Life	12 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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
----------------------------------	---	------------------	---	---------------	---

'M317500:180702'

Printed on 11 Jul 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)