Datasheet: AAM36B

Description:	RABBIT ANTI MOUSE INTERLEUKIN-4:Biotin
Specificity:	IL-4
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			0.25 ug/ml - 1.0 ug/ml
Western Blotting	▪			0.1 ug/ml - 0.2 ug/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 conjugated to Biotin - lyophilised
Reconstitution	Reconstitute with 0.5 ml 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-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.
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 0.1 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 it's 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	AAM36B may be used in direct ELISA or as the detection antibody in sandwich ELISA with AAM36 as the capture reagent and PMP81 as the standard.
References	1. de Barros, V.E.D. *et al.* (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. *et al.* (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 +4ºC. Following reconstitution store at -20ºC. 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 available at: Material Safety Datasheet Documentation #10162 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
Regulatory	For research purposes only

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