

Datasheet: PMP81

Description:	RECOMBINANT MOUSE INTERLEUKIN-4		
Name:	IL-4		
Format:	Rec. Protein		
Product Type:	Recombinant Protein		
Quantity:	20 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
ELISA	-			0.2 - 0.4ng/well
Western Blotting	-			1.5 - 3.0ng/lane
Functional Assays	-			

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Mouse
Product Form	Purified recombinant protein - lyophilized
Reconstitution	Reconstitute with 200 ul 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.
Preparation	Purified recombinant IL-4 expressed in <i>E.coli</i>
Source	E.coli
Preservative Stabilisers	None present
Carrier Free	Yes
Endotoxin Level	< 1.0 EU/ug

Approx. Protein Concentrations	0.1 mg/ml after reconstitution
External Database Links	UniProt: P07750 Related reagents Entrez Gene:
Synonyms	16189 II4 Related reagents II-4
Product Information	Recombinant Murine interleukin-4 is an <i>E.coli</i> derived preparation of Interleukin-4 (IL-4), also known as B-cell stimulatory factor 1. Interleukin-4 is a pleiotropic cytokine which interacts with multiple cell lineages, including T cells, fibroblasts and haematopoietic cells, and is one of the most important factors involved in B cell IgG1 and IgE class switching. IL-4 acts as a regulator of low affinity Fc receptor for IgE (CD23) expression on both lymphocytes and monocytes.
Protein Molecular Weight	13.5 kDa (120 amino acid residues)
Activity	The ED $_{50}$ was determined by the dose-dependent proliferation of murine HT-2 cells is < 2.0 ng/ml, corresponding to a specific activity of > 5 x 10^5 units/mg.
Purity	>98% by SDS PAGE and HPLC
ELISA	PMP81 may be used as a standard in an ELISA application with AAM36.
Western Blotting	PMP81 may be used as a positive control for western blotting applications with AAM36.
References	 Thomas, M.J. <i>et al.</i> (2002) CD8 T cells inhibit IgE via dendritic cell IL-12 induction that promotes Th1 T cell counter-regulation. <u>J Immunol. 168 (1): 216-23.</u> Bénéteau, M. <i>et al.</i> (2012) Combination of glycolysis inhibition with chemotherapy results in an antitumor immune response. <u>Proc Natl Acad Sci U S A. 109: 20071-6.</u> Lam, R.S. <i>et al.</i> (2016) Unprimed, M1 and M2 Macrophages Differentially Interact with <i>Porphyromonas gingivalis</i>. <u>PLoS One. 11 (7): e0158629.</u>
Storage	Prior to reconstitution store at -20°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 protein. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.

Health And Safety Material Safety Datasheet documentation #10268 available at:

Information https://www.bio-rad-antibodies.com/SDS/PMP81

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Regulatory For research purposes only

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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 'M433615:241118'

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