

## Datasheet: AHP780

<b>Description:</b>	RABBIT ANTI HUMAN 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 (1)	▪			
ELISA	▪			0.5 - 2.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml
Functional Assays	▪			0.03 - 0.05ug/ml

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.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

<b>Target Species</b>	Human
<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.</p> <p>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 human IL-4 were raised by repeated immunisations of rabbits with highly

purified antigen. Purified IgG prepared by affinity chromatography.

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<b>Buffer Solution</b>	Phosphate buffered saline
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<b>Preservative Stabilisers</b>	None present
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<b>Carrier Free</b>	Yes
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<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml after reconstitution.
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<b>Immunogen</b>	<a href="#">Recombinant human IL-4</a>
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<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P05112</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">3565</a> IL4 <a href="#">Related reagents</a>
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<b>RRID</b>	AB_609743
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<b>Specificity</b>	<p><b>Rabbit anti Human Interleukin-4 antibody</b> recognizes human IL-4 (Interleukin-4), also known as B-cell stimulatory factor 1, a 129 amino acid 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.</p> <p>IL-4 signalling through the IL-4 receptor (IL-4R), under the influence of Stat6, induces the differentiation of CD4<sup>+</sup> T cells into Th2 helper cells, which themselves then secrete IL-4 along with IL-5, IL-6, IL-10 and IL-13. Excessive secretion of IL-4 by Th2 helper cells has been linked with allergy and elevated IgE levels.</p>
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<b>ELISA</b>	This purified human IL-4 antibody may be used in ELISA with <a href="#">recombinant human IL-4</a> (PHP234) as the standard.
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<b>Further Reading</b>	<ol style="list-style-type: none"><li>1. Arai, N. <i>et al.</i> (1989) Complete nucleotide sequence of the chromosomal gene for human IL-4 and its expression. <a href="#">J Immunol. 142 (1): 274-82.</a></li><li>2. Steinke, J.W. &amp; Borish, L. (2001) Th2 cytokines and asthma. Interleukin-4: its role in the pathogenesis of asthma, and targeting it for asthma treatment with interleukin-4 receptor antagonists. <a href="#">Respir Res. 2 (2): 66-70.</a></li></ol>
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<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 recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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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:  
<https://www.bio-rad-antibodies.com/SDS/AHP780>  
10294

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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

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

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

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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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