

## Datasheet: AHP340B

<b>Description:</b>	RABBIT ANTI HUMAN RANTES:Biotin
<b>Specificity:</b>	RANTES
<b>Other names:</b>	CCL5
<b>Format:</b>	Biotin
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			
ELISA	▪			0.25 - 1.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG conjugated to Biotin - lyophilised
<b>Reconstitution</b>	<p>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.</p> <p>For long term storage the addition of 0.09% sodium azide is recommended.</p>
<b>Antiserum Preparation</b>	Antisera to human RANTES were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein</b>	IgG concentration 0.1 mg/ml after reconstitution.

## Concentrations

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**Immunogen** [Recombinant Human RANTES](#)

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**External Database Links**

**UniProt:**

[P13501](#) [Related reagents](#)

**Entrez Gene:**

[6352](#) CCL5 [Related reagents](#)

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**Synonyms** D17S136E, SCYA5

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**Specificity**

**Rabbit anti Human RANTES antibody** recognizes human RANTES (regulated upon activation, normal T cell expressed and secreted), otherwise known as CCL5, a 68 amino acid CC-chemokine involved in T cell activation and cell recruitment, expressed by cytotoxic (CD8+) T cells (CTLs), macrophages, keratinocytes and endothelial cells.

RANTES acts as a chemoattractant for monocytes, CD4+/CD45RO+ memory T cells, basophils and eosinophils, thorough binding to chemokine (C-C motif) receptor 1 (CCR1), CCR3 and CCR5. Both CCR3 and CCR5 are known co-receptors for the entry of HIV viruses into target cells and the binding of RANTES to CCR3 on CTLs has been shown to enhance HIV-1-specific cytotoxicity, whilst binding to CCR5 inhibits membrane fusion and hence HIV entry.

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**ELISA**

This biotinylated human RANTES antibody may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with our [purified human RANTES antibody](#) (AHP340G) as the capture reagent and [recombinant human RANTES](#) (PHP062) as the standard.

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**Western Blotting**

This antibody may be used in Western Blotting under either reducing or non-reducing conditions with [recombinant human RANTES](#) (PHP062) as the positive control.

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**References**

1. Appay, V. *et al.* (2000) RANTES activates antigen-specific cytotoxic T lymphocytes in a mitogen-like manner through cell surface aggregation. [Int Immunol. 12 \(8\): 1173-82.](#)
  2. Dragic, T. *et al.* (1996) HIV-1 entry into CD4+ cells is mediated by the chemokine receptor CC-CKR-5. [Nature. 381 \(6584\): 667-73.](#)
  3. Cheng, H. *et al.* (2016) TWEAK/Fn14 activation induces keratinocyte proliferation under psoriatic inflammation. [Exp Dermatol. 25 \(1\): 32-7.](#)
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**Storage**

Prior to reconstitution store at +4°C.  
After reconstitution store at -20°C.  
Storage in frost-free freezers is not recommended. This product should be stored undiluted. 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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**Shelf Life**

6 months from date of reconstitution.

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**Health And Safety Information**

Material Safety Datasheet documentation #10162 available at: 10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

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**Regulatory**

For research purposes only

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