Datasheet: AHP340B

Description:	RABBIT ANTI HUMAN RANTES:Biotin
Specificity:	RANTES
Other names:	CCL5
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 - 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.

Target Species

Human

Product Form

Purified IgG conjugated to Biotin - lyophilized

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 human RANTES were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	None present
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml after reconstitution.
Immunogen	Recombinant Human RANTES
External Database Links	**UniProt:** P13501 Related reagents **Entrez Gene:** 6352 CCL5 Related reagents
Synonyms	D17S136E, SCYA5
RRID	AB_2244130
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.
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.
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.
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.
Storage	Prior to reconstitution store at -20°C.

After 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.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10294 available at: 10294: https://www.bio-rad-antibodies.com/uploads/MSDS/10294.pdf
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

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