

## ARG56638 anti-RANTES antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes RANTES
Tested Reactivity	Hu
Tested Application	ELISA, IHC-P, Neut, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	RANTES
Species	Human
Immunogen	E.coli derived Recombinant Human RANTES (CCL5). (SPYSSDTTPC CFAYIARPLP RAHIKEYFYT SGKCSNPVV FVTRKNRQVC ANPEKKWVRE YINSLEMS)
Conjugation	Un-conjugated
Alternate Names	3-68; C-C motif chemokine 5; SIS-delta; D17S136E; SISd; T cell-specific protein P228; EoCP; Small-inducible cytokine A5; Eosinophil chemotactic cytokine; TCP228; 4-68; RANTES; SCYA5; eoCP; T-cell-specific protein RANTES

### Application Instructions

Application table	Application	Dilution
	ELISA	Sandwich: 0.5 - 2.0 µg/ml with ARG56748 as a detection antibody
	IHC-P	2.0 µg/ml
	Neut	0.4 - 0.6 µg/ml (To yield [ND50] of the biological activity of hRANTES (100 ng/ml) )
	WB	0.1 - 0.2 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

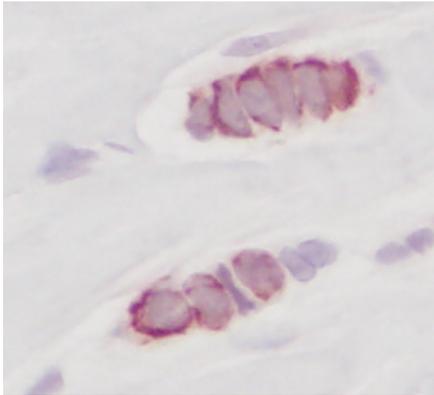
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

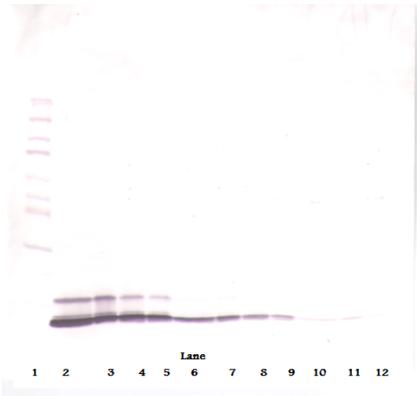
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Database links	<a href="#">GeneID: 6352 Human</a> <a href="#">Swiss-port # P13501 Human</a>
Gene Symbol	CCL5
Gene Full Name	chemokine (C-C motif) ligand 5
Background	<p>This gene is one of several chemokine genes clustered on the q-arm of chromosome 17. Chemokines form a superfamily of secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided into four subfamilies based on the arrangement of the N-terminal cysteine residues of the mature peptide. This chemokine, a member of the CC subfamily, functions as a chemoattractant for blood monocytes, memory T helper cells and eosinophils. It causes the release of histamine from basophils and activates eosinophils. This cytokine is one of the major HIV-suppressive factors produced by CD8+ cells. It functions as one of the natural ligands for the chemokine receptor chemokine (C-C motif) receptor 5 (CCR5), and it suppresses in vitro replication of the R5 strains of HIV-1, which use CCR5 as a coreceptor. Alternative splicing results in multiple transcript variants that encode different isoforms. [provided by RefSeq, Jul 2013]</p>
Function	<p>Chemoattractant for blood monocytes, memory T-helper cells and eosinophils. Causes the release of histamine from basophils and activates eosinophils. May activate several chemokine receptors including CCR1, CCR3, CCR4 and CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant RANTES protein induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). The processed form RANTES(3-68) acts as a natural chemotaxis inhibitor and is a more potent inhibitor of HIV-1-infection. The second processed form RANTES(4-68) exhibits reduced chemotactic and HIV-suppressive activity compared with RANTES(1-68) and RANTES(3-68) and is generated by an unidentified enzyme associated with monocytes and neutrophils. May also be an agonist of the G protein-coupled receptor GPR75, stimulating inositol trisphosphate production and calcium mobilization through its activation. Together with GPR75, may play a role in neuron survival through activation of a downstream signaling pathway involving the PI3, Akt and MAP kinases. By activating GPR75 may also play a role in insulin secretion by islet cells. [UniProt]</p>
Highlight	<p>Related products: <a href="#">RANTES antibodies</a>; <a href="#">RANTES ELISA Kits</a>; <a href="#">Anti-Rabbit IgG secondary antibodies</a>; Related news: <a href="#">circNDUFB2, a circular RNA (circRNA), activates anti-tumor immunity</a></p>
Calculated Mw	10 kDa
PTM	<p>N-terminal processed form RANTES(3-68) is produced by proteolytic cleavage, probably by DPP4, after secretion from peripheral blood leukocytes and cultured sarcoma cells. The identity of the O-linked saccharides at Ser-27 and Ser-28 are not reported in PubMed:1380064. They are assigned by similarity.</p>



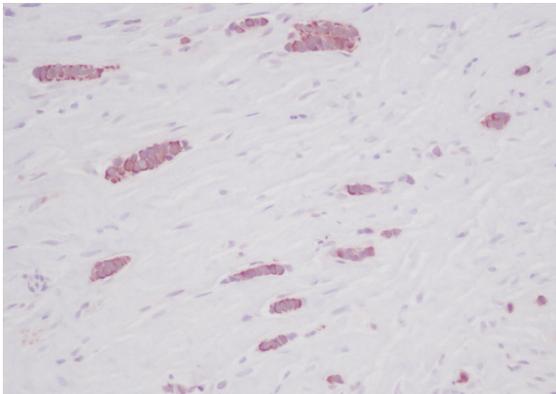
ARG56638 anti-RANTES antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded sections of Human breast invasive ductal carcinoma. The recommended ARG56638 anti-RANTES antibody concentration is 2.0 µg/ml with an overnight incubation at 4°C. An HRP-labeled polymer detection system was used with an AEC chromogen. Antigen Retrieval: Boil tissue section in Sodium Citrate buffer (pH 6.0) followed by cooling at RT for 20 min.



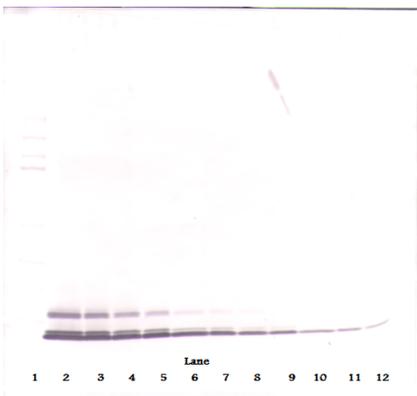
ARG56638 anti-RANTES antibody WB image

Western blot: 250 - 0.24 ng of Human RANTES stained with ARG56638 anti-RANTES antibody, under reducing conditions.



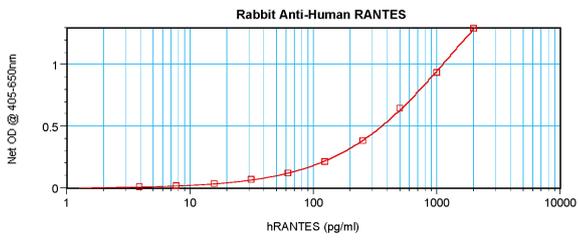
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ARG56638 anti-RANTES antibody WB image

Western blot: 250 - 0.24 ng of Human RANTES stained with ARG56638 anti-RANTES antibody, under non-reducing conditions.



### ARG56638 anti-RANTES antibody standard curve image

Sandwich ELISA: ARG56638 anti-RANTES antibody as a capture antibody at 0.5 - 2.0  $\mu\text{g}/\text{ml}$  combined with ARG56748 anti-RANTES antibody (Biotin) as a detection antibody. Results of a typical standard run with optical density.