

ARG56593 anti-RANTES antibody [5B3.D5]

Package: 200 µg, 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [5B3.D5] recognizes RANTES
Tested Reactivity	Hu
Tested Application	ELISA, IHC-P, Neut, WB
Host	Mouse
Clonality	Monoclonal
Clone	5B3.D5
Isotype	IgG2b, kappa
Target Name	RANTES
Species	Human
Immunogen	E.coli derived Recombinant Human RANTES. (SPYSSDTTPC CFAYIARPLP RAHIKEYFYT SGKCSNPAVV 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: 2.0 - 4.0 µg/ml with ARG56748 as a detection antibody
	IHC-P	10.0 µg/ml
	Neut	3.0 - 5.0 µg/ml (To yield [ND50] of the biological activity of Human RANTES (100 ng/ml))
	WB	0.5 - 1.0 µg/ml

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

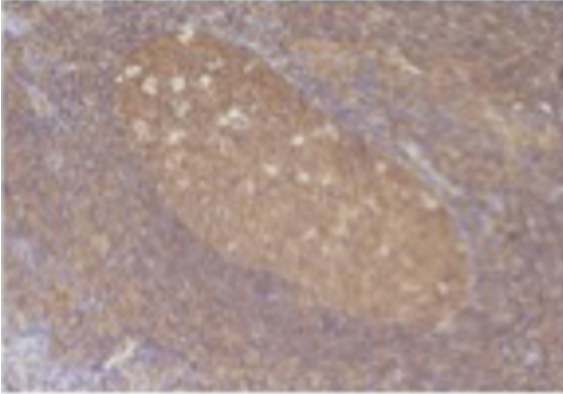
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid 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.

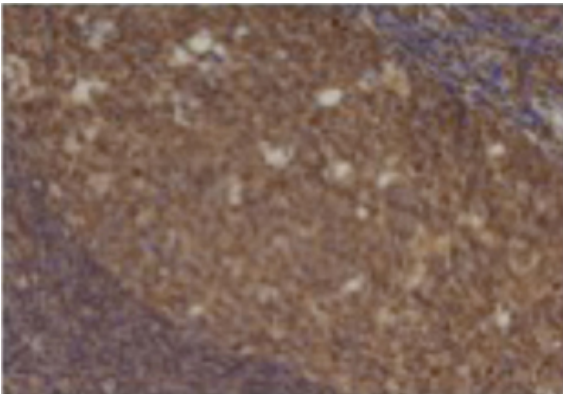
Bioinformation

Database links	GeneID: 6352 Human Swiss-port # P13501 Human
Gene Symbol	CCL5
Gene Full Name	chemokine (C-C motif) ligand 5
Background	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]
Function	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]
Highlight	Related products: RANTES antibodies ; RANTES ELISA Kits ; Anti-Mouse IgG secondary antibodies ; Related news: circNDUFB2, a circular RNA (circRNA), activates anti-tumor immunity
Calculated Mw	10 kDa
PTM	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.



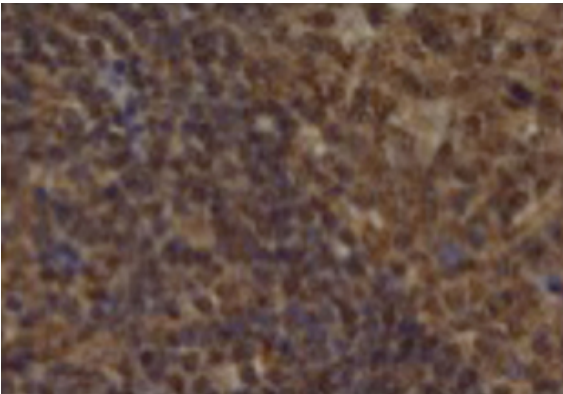
ARG56593 anti-RANTES antibody [5B3.D5] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded sections of Human tonsil. The recommended ARG56593 anti-RANTES antibody [5B3.D5] concentration is 10.0 µg/ml with an overnight incubation at 4°C. An HRP-labeled polymer detection system was used with a DAB chromogen. Antigen Retrieval: Boil tissue section in Citrate buffer (pH 6.0) followed by cooling at RT for 20 min.



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