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Product datasheet for SM1416P

RANTES (CCL5) Mouse Monoclonal Antibody [Clone ID: 5B3-D5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5B3-D5
Applications:	ELISA, FN, IF, IHC, IP, WB
Recommended Dilution:	**Neutralization:** To yield one-half maximal inhibition [ND50] of the biological activity of Human RANTES (100 ng/ml), a concentration of 3.0-5.0 µg/ml of this antibody is required. **Sandwich ELISA:** In a Sandwich ELISA (assuming 100 µl/well), a concentration of 2.0-4.0 µg/ml of this antibody will detect at least 500 pg/ml of recombinant Human RANTES when used with Biotinylated antigen affinity purified anti-Human RANTES (PP1064B1 or PP1064B2) as the detection antibody at a concentration of approximately 0.5-1.0 µg/ml. **Western Blot:** To detect Human RANTES by Western Blot analysis this antibody can be used at a concentration of 0.5-1.0 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Human RANTES is 0.25-2.0 ng/lane, under reducing conditions and 0.25-0.50 ng/lane, under non-reducing conditions. **Immunohistochemistry on Frozen Sections.** **Immunohistochemistry on Paraffin Sections:** 10 µg/ml with an overnight incubation at 4˚C. An HRP-labeled polymer detection system was used with a DAB chromogen. Heat induced antigen retrieval with a pH 6.0 citrate buffer is recommended. Optimal concentrations and conditions may vary. *Protocol and staining provided by Dr. Lauren Binge, Laboratory of Prof. Charles Mackay, Monash Univeristy, Australia.* **Immunofluorescence:** This antibody (Lot #057E172) stained PBMC. The primary antibody was incubated at 10.0 mg/ml for one hour at room temperature followed by a fluorescent labeled secondary antibody. *Protocol and staining provided by Dr. Lauren Binge, Laboratory of Prof. Charles Mackay, Monash Univeristy, Australia.*
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	*E. Coli* derived recombinant Human Rantes (Cat.-No PA123)
Specificity:	Recognizes Human RANTES chemokine. Other species not tested.

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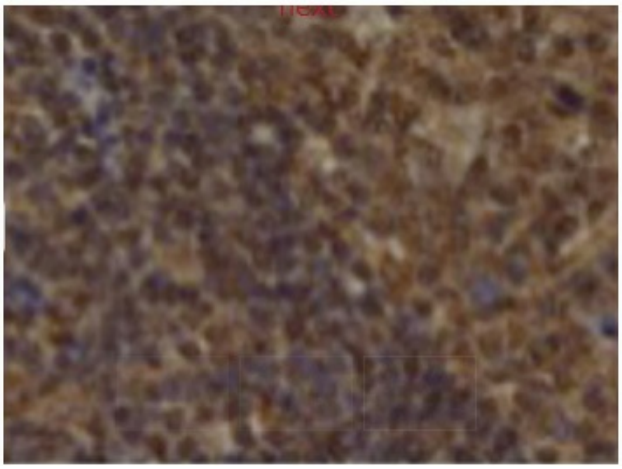
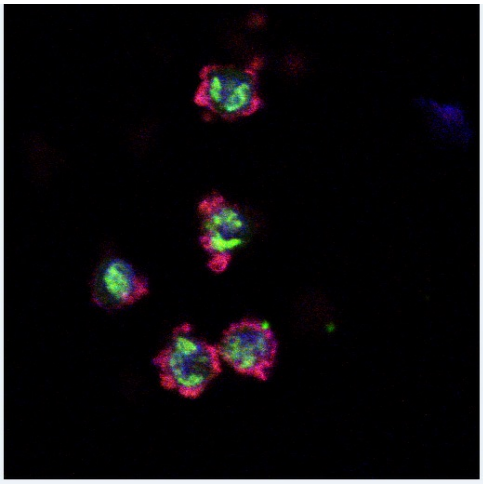
Formulation:	PBS without preservatives State: Azide Free State: Lyophilized (sterile filtered) purified Ig fraction
Reconstitution Method:	Restore in sterile water to a concentration of 1.0 mg/ml.
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	C-C motif chemokine ligand 5
Database Link:	Entrez Gene 6352 Human P13501
Background:	RANTES (Regulated-on-activation-normal-T-cell-expressed-and-secreted) is a member of the "intercrine/chemokine" family of cytokines, has been previously shown to be chemotactic for monocytes and T cells of memory/helper phenotype. RANTES has been shown to cause the release of histamine from basophils and activates eosinophils. It also binds to CCR1, CCR3, CCR4 and CCR5. This CC-chemokine enhances antigen-specific T helper (Th) type-1 responses against HIV-1. CC chemokines are small inducible proteins that are related to interleukin 8. In lung adenocarcinoma, RANTES is a predictor of survival while that of interleukin (IL)-8 is associated with a poor prognosis. In several models, tumorigenesis is abolished by RANTES, while it is facilitated by IL-8. Site-directed mutagenesis indicated that regulation of RANTES promoter activity required two nuclear factor (NF)-kappaB response elements but not its activator protein (AP)-1 binding sites.
Synonyms:	C-C motif chemokine 5, D17S136E, SCYA5, Small-inducible cytokine A5, SIS-delta, EoCP

Product images:



Formalin-Fixed, Paraffin-Embedded Sections of Human tonsil stained with RANTES Antibody Cat.-No SM1416P at 10 ug/ml



This antibody stained PBMC. The primary antibody was incubated at 10.0 ug/ml for one hour at room temperature followed by a fluorescent labeled secondary antibody. Protocol and staining provided by Dr. Lauren Binge, Laboratory of Prof. Charles Mackay, Monash Univeristy, Australia.