

# Human CCL5/RANTES APC-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 21445

Catalog Number: IC278A

100	<b>TESTS</b>
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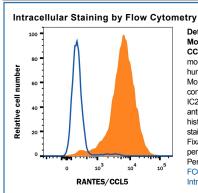
DESCRIPTION	Human		
Species Reactivity	Human		
Specificity	Detects human CCL5/RANTES in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with other chemokines, including recombinant human CCL2, 3, 4, recombinant mouse (rm) CCL3, and rmCCL4.		
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 21445		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human CCL5/RANTES		
	Accession # P13501		
Conjugate	Allophycocyanin		
	Excitation Wavelength: 620-650 nm		
	Emission Wavelength: 660-670 nm		
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.		
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shed		
	(SDS) for additional information and handling instructions.		

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	10 μL/10 <sup>6</sup> cells	See Below

#### DATA



Detection of CCL5/RANTES in NS0 Mouse Cell Line Transfected with Human CCL5/RANTES by Flow Cytometry. NS0 mouse myeloma cell line transfected with human CCL5/RANTES was stained with Mouse Anti-Human CCL5/RANTES APCconjugated Monoclonal Antibody (Catalog # IC278A, filled histogram) or isotype control antibody (Catalog # IC002A, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules

### PREPARATION AND STORAGE

**Shipping**The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage

Protect from light. Do not freeze.

12 months from date of receipt, 2 to 8 °C as supplied.

## BACKGROUND

RANTES (Regulated upon Activation, Normal T cell Expressed and presumably Secreted) is a member of the  $\beta$  (C-C) chemokine subfamily and is now designated CCL5. It binds and activates the chemokine receptors CCR1, 3 and 5, and is reported to be a ligand for GPR75. CCL5 contains O-linked glycosylation and undergoes N-terminal processing by MMP-13. CCL5 homooligomers likely exist, and heterodimers with CXCL4 and CCL2 have been noted. Functionally, CCL5 promotes the migration of CD8<sup>+</sup> T cells, macrophages, and eosinophils, and induces the formation of chemokine-activated killer cells. Human and mouse CCL5 share 84% sequence identity.

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