

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CCL5/RANTES in direct ELISAs and Western blots. In direct ELISAs, approximately 40% cross-reactivity with recombinant mouse CCL5/RANTES and recombinant canine CCL5/RANTES is observed, approximately 20% cross-reactivity with recombinant cotton rat CCL5/RANTES is observed, and less than 1% cross-reactivity with recombinant feline CCL5/RANTES is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CCL5/RANTES Ser25-Ser91 Accession # P13501
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

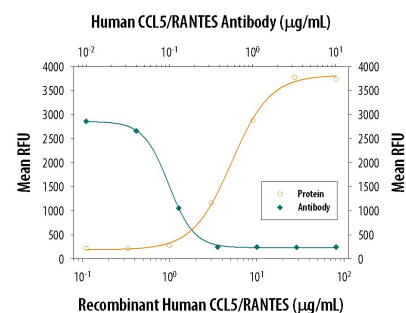
APPLICATIONS

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
Western Blot	0.1 µg/mL	Recombinant Human CCL5/RANTES (Catalog # 278-RN)
Immunocytochemistry	5-15 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below
Neutralization	Measured by its ability to neutralize CCL5/RANTES-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR5. The Neutralization Dose (ND ₅₀) is typically 0.1-0.4 µg/mL in the presence of 0.01 µg/mL Recombinant Human CCL5/RANTES.	

DATA

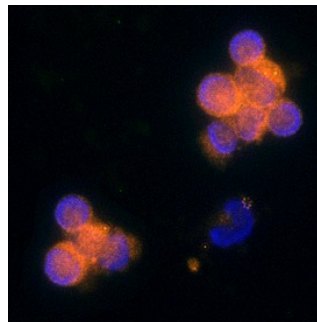
Neutralization



Chemotaxis Induced by CCL5/RANTES and Neutralization by Human CCL5/RANTES Antibody.

Recombinant Human CCL5/RANTES (Catalog # 278-RN) chemoattracts the BaF3 mouse pro-B cell line transfected with human CCR5 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Human CCL5/RANTES (0.01 µg/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Human CCL5/RANTES Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-278-NA). The ND₅₀ is typically 0.1-0.4 µg/mL.

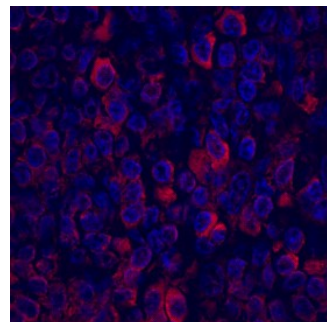
Immunocytochemistry



CCL5/RANTES in Human PBMCs.

CCL5/RANTES was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) using Goat Anti-Human CCL5/RANTES Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-278-NA) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (orange; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

Immunohistochemistry



CCL5/RANTES in Human Tonsil.

CCL5/RANTES was detected in immersion fixed paraffin-embedded sections of human tonsil using Goat Anti-Human CCL5/RANTES Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-278-NA) at 10 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

RANTES (Regulated upon Activation, Normal T cell Expressed and presumably Secreted) is a member of the β (C-C) chemokine subfamily and is now designated CCL5. It binds and activates the chemokine receptors CCR1, 3 and 5.