

CCL5 (RANTES) Polyclonal Antibody

Catalog NumberP230E

Product data sheet

Details		Species Reactivity	
Size	500 µg	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Published species	Human, Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	ELISA (ELISA)	Assay-dependent
Immunogen	Recombinant human RANTES	Western Blot (WB)	Assay-dependent
Conjugate	Unconjugated	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Form	Liquid		
Concentration	1.0 mg/mL		
Purification	Protein G		
Storage buffer	PBS		
Contains	no preservative		
Storage Conditions	-20°C		

Product specific information

P230E targets RANTES in ELISA, and WB applications and shows reactivity with Human samples. The P230E immunogen is recombinant human RANTES. P230E detects RANTES which has a predicted molecular weight of approximately 8 kDa. The P230E Rantes polyclonal antibody has successfully been paired as the coating antibody in a sandwich ELISA with detection antibody M230B (biotinylated conjugate of clone VL-1) Typical dilutions for sandwich ELISA include 1 µg/mL for coating and 0.125 - 0.25 µg/mL for detection. Antibody P230E and biotinylated antibody M230B (clone VL-1) have successfully been used in combination with recombinant Rantes protein SRNTS in ELISA applications.

Background/Target Information

CCL5 (RANTES) is a chemokine gene located on the q-arm of chromosome 17. Chemokines are 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. CCL5, 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. Diseases associated with CCL5 include Human Immunodeficiency Virus Type 1 and Periapical Granuloma.

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