



# Anti-CCL5 polyclonal antibody (CPBT-65251RH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

Rabbit anti Human RANTES antibody recognizes human RANTES (regulated upon activation, normal T cell expressed and secreted), otherwise known as CCL5, a 68 amino acid CC-chemokine involved in T cell activation and cell recruitment, expressed by cytotoxic (CD8+) T cells (CTLs), macrophages, keratinocytes and endothelial cells. RANTES acts as a chemoattractant for monocytes, CD4+/CD45RO+ memory T cells, basophils and eosinophils, thorough binding to chemokine (C-C motif) receptor 1 (CCR1), CCR3 and CCR5. Both CCR3 and CCR5 are known co-receptors for the entry of HIV viruses into target cells and the binding of RANTES to CCR3 on CTLs has been shown to enhance HIV-1- specific cytotoxicity, whilst binding to CCR5 inhibits membrane fusion and hence HIV entry. ELISA This purified human RANTES antibody may be used in an indirect ELISA or as the capture reagent in a sandwich ELISA. Western Blotting This antibody may be used in Western Blotting under either reducing or non-reducing conditions.

Specificity	CCL5
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Conjugate	Unconjugated
Applications	ELISA; FA; IHC-P; WB
Format	Purified IgG - lyophilised
Size	100 µg
Preservative	None

<b>Storage</b>	in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.
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## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CCL5 chemokine (C-C motif) ligand 5 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	CCL5
<b>Synonyms</b>	CCL5; chemokine (C-C motif) ligand 5; SISd; eoCP; SCYA5; RANTES; TCP228; D17S136E; SIS-delta; C-C motif chemokine 5; beta-chemokine RANTES; T-cell specific protein p288; eosinophil chemotactic cytokine; small inducible cytokine subfamily A (Cys-Cys), memb
<b>Entrez Gene ID</b>	<a href="#">6352</a>
<b>Protein Refseq</b>	<a href="#">NP_001265665</a>
<b>UniProt ID</b>	P13501
<b>Chromosome Location</b>	17q12
<b>Pathway</b>	Chagas disease (American trypanosomiasis); Chemokine receptors bind chemokines; Chemokine signaling pathway; Class A/1 (Rhodopsin-like receptors); Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; Defective ACTH causes Obesity and Pro-opiomelanocortinin deficiency (POMCD); Disease;
<b>Function</b>	CCR1 chemokine receptor binding; CCR4 chemokine receptor binding; CCR5 chemokine receptor binding; chemoattractant activity; chemokine activity; chemokine receptor antagonist activity; chemokine receptor binding; phosphatidylinositol phospholipase C activity; phospholipase activator activity; protein binding; protein homodimerization activity; protein kinase activity; protein self-association; receptor signaling protein tyrosine kinase activator activity;