



CCL4 Polyclonal Antibody

Catalog NumberPA1-28319

Product data sheet

Details		Species Reactivity	
Size	50 µg	Species reactivity	Human
Host/Isotope	Chicken / IgY		
Class	Polyclonal	Tested Applications	Dilution *
Type	Antibody		
Immunogen	synthetic peptide GSDPPTACCFSTARKLPNRFVVDYYETSSLCSQPAVVFQTKRSKQVCADPSESWVQEYVYDLELN, corresponding to amino acids 27-92 of Human Macrophage Inflammatory Protein 1 beta.		
Conjugate	Unconjugated	ELISA (ELISA)	Assay-dependent
Form	Liquid	Western Blot (WB)	1:500
Concentration	1 mg/mL	* 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.	
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

PA1-28319 detects CCL4 from human samples.

Background/Target Information

CCL4 (macrophage inflammatory protein 1-beta, MIP1B) belongs to the intercrine beta (chemokine CC) family. Functionally, CCL4 is involved in chemotactic and proinflammatory effects, and homeostasis. CCL4 is produced by macrophages upon stimulation by bacterial endotoxins. CCL4 recruits and stimulates various inflammatory cells at sites of inflammation. CCL4 is produced by lymphocytes, macrophages and dendritic cells. Both CCL4 and the related protein CCL3 participate in the host response to invading bacterial, viral, parasite and fungal pathogens by regulating the trafficking and activation state of selected subgroups of inflammatory cells. While both CCL4 and CCL3 exert similar effects on monocytes, their effect on lymphocytes differ, with CCL4 selectively attracting CD4+ lymphocytes and CCL3 selectively attracting CD8+ lymphocytes. Additionally, both have been shown to be potent chemoattractants for B cells, eosinophils and dendritic cells. The processed form of CCL4 can induce down-modulation of surface expression of the chemokine receptor CCR5, thus inhibiting the CCR5-mediated entry of HIV-1 in T cells. CCL4 binds with high affinity to CCR5 receptors.

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