10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CCR3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8806c

Product Information

Application	WB, FC, E
Primary Accession	P51677
Other Accession	Q9BDS8
Reactivity	Human
Predicted	Monkey, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22038
Calculated MW	41044
Antigen Region	291-318

Additional Information

Gene ID	1232
Other Names	C-C chemokine receptor type 3, C-C CKR-3, CC-CKR-3, CCR-3, CCR3, CKR3, Eosinophil eotaxin receptor, CD193, CCR3, CMKBR3
Target/Specificity	This CCR3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 291-318 amino acids from the Central region of human CCR3.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CCR3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CCR3
Synonyms	CMKBR3

Function	G protein-coupled receptor (GPCR) that plays a key role in the immune system by regulating the migration and activation of white blood cells in response to chemokines (PubMed:28994588). Selectively interacts with eosinophil-attracting chemokines such as eotaxin/CCL11, eotaxin-2/CCL24 and eotaxin-3/CCL26 (PubMed:7622448, PubMed:8642344, PubMed:8676064). Ligand binding triggers intracellular signaling that leads to chemotaxis of immune cells. Mechanistically, signals through GNA14 or GNA16 to induce stimulation of phospholipase Cbeta/PLCB2 and subsequently chemotaxis (PubMed:18406577). Alternatively, transduces signal via GNAI1 resulting in elevated intracellular calcium levels and activation of the PI3K/AKT pathway (PubMed:8676064, PubMed:35570218). May also act as a possible functional receptor for NARS1 (PubMed:30171954).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	In eosinophils as well as trace amounts in neutrophils and monocytes.

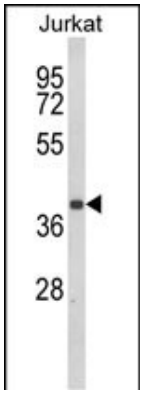
Background

CCR3 is a receptor for C-C type chemokines. It belongs to family 1 of the G protein-coupled receptors. This receptor binds and responds to a variety of chemokines, including eotaxin (CCL11), eotaxin-3 (CCL26), MCP-3 (CCL7), MCP-4 (CCL13), and RANTES (CCL5). It is highly expressed in eosinophils and basophils, and is also detected in TH1 and TH2 cells, as well as in airway epithelial cells. This receptor may contribute to the accumulation and activation of eosinophils and other inflammatory cells in the allergic airway. It is also known to be an entry co-receptor for HIV-1.

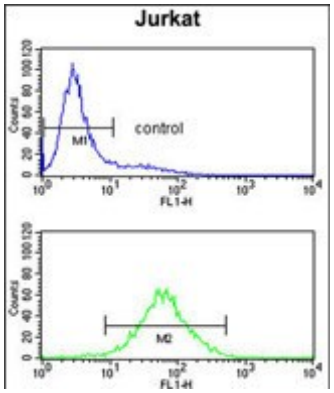
References

Ponath,P.D., et.al., J. Clin. Invest. 97 (3), 604-612 (1996)

Images



Western blot analysis of CCR3 Antibody (Center) (Cat. #AP8806c) in Jurkat cell line lysates (35ug/lane). CCR3 (arrow) was detected using the purified Pab.



CCR3 Antibody (Center) (Cat. #AP8806c) flow cytometry analysis of Jurkat cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.