

CCR3 Rabbit pAb

Catalog # AP96804

Product Information

Application	WB
Primary Accession	P51678
Other Accession	P51678
Reactivity	Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41783
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse CCR3
Epitope Specificity	131-230/355
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the G-protein coupled receptor 1 family.
SUBUNIT	Binds to HIV-1 Tat.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene 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. This gene and seven other chemokine receptor genes form a chemokine receptor gene cluster on the chromosomal region 3p21. Alternatively spliced transcript variants encoding the same protein have been described.

Additional Information

Gene ID	12771
Other Names	C C CKR3; CC-CKR-3; CD193; CKR 3; CKR3; CMKBR3; CC-CKR3; Cmkbr1l2; CCR3_HUMAN; CCR3; C-C CKR-3; CCR-3; Eosinophil eotaxin receptor; CCR3_MOUSE; Macrophage inflammatory protein 1-alpha receptor-like 2 (MIP-1 alpha RL2); CCR3_RAT; C-C motif chemokine receptor 3; chemokine (C-C motif) receptor 3
Dilution	WB=1:500-2000

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

Storage	reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
----------------	---

Protein Information

Name	Ccr3
Synonyms	Cmkbr1l2, 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. Selectively interacts with eosinophil-attracting chemokines such as eotaxin/CCL11, eotaxin-2/CCL24 and eotaxin-3/CCL26. Ligand binding triggers intracellular signaling that leads to chemotaxis of immune cells. Mechanistically, signals through GNA14 or GNA16 to induce stimulation of phospholipase C β /PLCB2 and subsequently chemotaxis. Alternatively, transduces signal via GNAI1 resulting in elevated intracellular calcium levels and activation of the PI3K/AKT pathway. May also act as a possible functional receptor for NARS1.
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Detected in skeletal muscle and in trace amounts in leukocytes

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