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[Marker Primary Antibody]

Rabbit Anti-CCR3/AF594 Conjugated antibody

Catalog Number: SL1167R-AF594

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-CCR3/AF594
Immunogen:	KLH conjugated synthetic peptide derived from human CCR-3 C-terminus
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse,Dog,Cow)
Background:	background: 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. **Function:** Receptor for a C-C type chemokine. Binds to eotaxin, eotaxin-3, MCP-3, MCP-4, RANTES and MIP-1 delta. Subsequently transduces a signal by increasing the intracellular calcium ions level. Alternative coreceptor with

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	CD4 for HIV-1 infection. **Subunit:** Binds to HIV-1 Tat. **Subcellular Location:** Cell membrane; Multi-pass membrane protein. **Tissue Specificity:** In eosinophils as well as trace amounts in neutrophils and monocytes. **Similarity:** Belongs to the G-protein coupled receptor 1 family. **Database links:** **Entrez Gene:** 1232 Human **Entrez Gene:** 12771 Mouse **Entrez Gene:** 117027 Rat Omim: 601268 Human **SwissProt:** P51677 Human **SwissProt:** P51678 Mouse **SwissProt:** O54814 Rat **Unigene:** 506190 Human **Unigene:** 57050 Mouse **Unigene:** 9890 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. ChemokineReceptor 3 (CCR3) is mainly expressed on eosinophils, Th2 lymphocytes, mast cells, and bronchial epithelial cells; CCR3 mediates the activation of mitogen-activated protein kinase (MAPK) extracellular signal-regulated kinase-2 (ERK2), p38, and JNK in eosinophils.