

## Rabbit CCR5 Polyclonal Antibody | anti-CCR5 antibody

Phospho-CCR5 (Ser336) Antibody

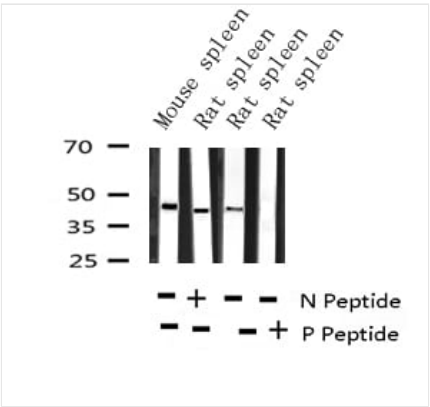
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                 |
|-----------|--------|-------------------|--------------------------------------------------------------|
| AAA321645 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Western Blot |

### PRODUCT SYNONYMS

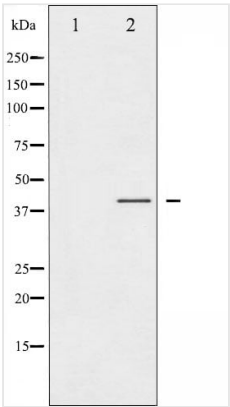
CCR5; Polyclonal Antibody; Phospho-CCR5 (Ser336) Antibody; AM4 7; C C chemokine receptor type 5; C C CKR 5; C-C chemokine receptor type 5; C-C CKR-5; C-C motif chemokine receptor 5 A159A; CC Chemokine Receptor 5; CC Chemokine Receptor Type 5; CC CKR 5; CC-CKR-5; CCCKR 5; CCCKR5; CCR 5; CCR-5; CCR5 chemokine (C C motif) receptor 5; CCR5\_HUMAN; CD 195; CD195; CD195 Antigen; Chemokine C C motif receptor 5; Chemokine receptor CCR5; CHEMR13; CKR 5; CKR5; CMKBR 5; CMKBR5; FLJ78003; HIV 1 Fusion Coreceptor; HIV-1 fusion coreceptor; HIV1 fusion coreceptor; IDDM22; MIP-1 alpha receptor; anti-CCR5 antibody

### PRODUCT SPECIFICATIONS

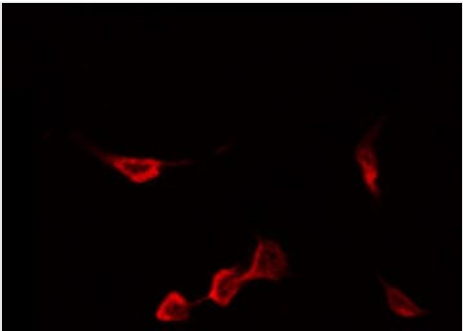
|                                                |                                                                                                                                                                                                                                             |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                      |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                                                                                                           |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                  |
| Isotype                                        | IgG                                                                                                                                                                                                                                         |
| Specificity                                    | Phospho-CCR5 (Ser336) antibody detects endogenous levels of CCR5 only when phosphorylated at Serine 336                                                                                                                                     |
| Purity/Purification                            | From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.                                                                                                      |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                               |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                                                                                                                                      |
| Sequence Length                                | 352                                                                                                                                                                                                                                         |
| Applicable Applications for anti-CCR5 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                                                                                                                                                                |
| Immunogen                                      | A synthesized peptide derived from human CCR5 around the phosphorylation site of Serine 336                                                                                                                                                 |
| Subcellular Location                           | Cell Membrane                                                                                                                                                                                                                               |
| Tissue Specificity                             | Highly expressed in spleen, thymus, in the myeloid cell line THP-1, in the promyeloblastic cell line KG-1a and on CD4+ and CD8+ T-cells. Medium levels in peripheral blood leukocytes and in small intestine. Low levels in ovary and lung. |
| Predicted Cross Reactivity                     | <b>Pig, Bovine, Rabbit, Chicken</b>                                                                                                                                                                                                         |
| Similarity                                     | Pig (82%), Bovine (91%), Rabbit (82%), Chicken (88%)                                                                                                                                                                                        |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                |
| Epitope                                        | Phospho Ser336                                                                                                                                                                                                                              |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                           |



**WB (Western Blot)**  
Western blot analysis of Phospho-CCR5 (Ser336) expression in various lysates



**WB (Western Blot)**  
Western blot analysis of CCR5 phosphorylation expression in Jurkat whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



**IF (Immunofluorescence)**  
AAA321645 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

**Related Product Information for anti-CCR5 antibody**

Description: CCR5 a 7-transmembrane G-linked receptor for a number of inflammatory C-C type chemokines including MIP-1-alpha, MIP-1-beta and RANTES. Transduces a signal by increasing the intracellular calcium ion level. May play a role in the control of granulocytic lineage proliferation or differentiation. Acts as a coreceptor (along with CD4) for HIV-1 R5 isolates. Interacts with PRAF2. Interacts with HIV-1 surface protein gp120.

Function: Receptor for a number of inflammatory CC-chemokines including CCL3/MIP-1-alpha, CCL4/MIP-1-beta and RANTES and subsequently transduces a signal by increasing the intracellular calcium ion level. May play a role in the control of granulocytic lineage proliferation or differentiation.

Subunit Structure: Interacts with PRAF2 (PubMed:15757671). Efficient ligand binding to CCL3/MIP-1alpha and CCL4/MIP-1beta requires sulfation, O-glycosylation and sialic acid modifications. Glycosylation on Ser-6 is required for efficient binding of CCL4 (PubMed:11733580, PubMed:8663314, PubMed:8699119, PubMed:10383387). Interacts with GRK2 (PubMed:10085131). Interacts with ARRB1 and ARRB2 (PubMed:11448957, PubMed:16144840). Interacts with CNIH4 (PubMed:24405750).

Post-translational Modifications: Sulfated on at least 2 of the N-terminal tyrosines. Sulfation contributes to the efficiency of HIV-1 entry and is required for efficient binding of the chemokines, CCL3 and CCL4. O-glycosylated, but not N-glycosylated. Ser-6 appears to be the major site. Also sialylated glycans present which contribute to chemokine binding. Thr-16 and Ser-17 may also be glycosylated and, if so, with small moieties such as a T-antigen. Palmitoylation in the C-terminal is important for cell surface expression, and to a lesser extent, for HIV entry. Phosphorylation on serine residues in the C-terminal is stimulated by binding CC chemokines especially by APO-RANTES.

Similarity: Belongs to the G-protein coupled receptor 1 family.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4502639                                                                                        |
| NCBI GeneID                      | 1234                                                                                           |
| NCBI Accession #                 | NP_000570.1                                                                                    |
| NCBI GenBank Nucleotide #        | NM_000579.3                                                                                    |
| UniProt Accession #              | P51681; O14692; O14693; O14695; O14696; O14697; O14698; O14699; O14700; O14701; O14702; O14703 |
| Molecular Weight                 | Observed: 40 kDa<br>Predicted: 41 kDa                                                          |
| NCBI Official Full Name          | C-C chemokine receptor type 5                                                                  |
| NCBI Official Synonym Full Names | C-C motif chemokine receptor 5 (gene/pseudogene)                                               |
| NCBI Official Symbol             | CCR5                                                                                           |
| NCBI Official Synonym Symbols    | CKR5; CCR-5; CD195; CKR-5; CCCKR5; CMKBR5; IDDM22; CC-CKR-5                                    |
| NCBI Protein Information         | C-C chemokine receptor type 5                                                                  |
| UniProt Protein Name             | C-C chemokine receptor type 5                                                                  |
| UniProt Gene Name                | CCR5                                                                                           |
| UniProt Synonym Gene Names       | CMKBR5; C-C CKR-5; CC-CKR-5; CCR-5; CCR5                                                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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