# CD194 Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

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| **Product Name** | CD194, Monoclonal Antibody |
| **Full Product Name** | Purified Anti-Human CD194 Antibody [L291H4] |
| **Product Gene Name** | anti-CD194 antibody |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Number** | L291H4 |
| **Host** | Mouse |
| **Species Reactivity** | Human |
| **Form/Format** | Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300. |
| **Concentration** | >=1mg/mL (lot specific) |
| **Preparation and Storage** | Store at 4 degree C valid for 12 months or -20 degree C valid for long term storage, avoid freeze/thaw cycles. |
| **Molecular Weight** | 41,403 Da |
| **Chromosome Location** | Chromosome: 3; NC_000003.11 (32993066..32996403). Location: 3p24 |
| **OMIM** | 604836 |
| **3D Structure** | ModBase 3D Structure for P51679 |
| **Product Categories/Family for anti-CD194 antibody** | FC Purified Antibodies; Flow Cytometry Antibodies |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-CD194 antibody** | Flow Cytometry (FC/FACS/FCM) |
| **Related Product Information for anti-CD194 antibody** | High affinity receptor for the C-C type chemokines CCL17/TARC, CCL22/MDC and CKLF isoform 1/CKLF1. The activity of this receptor is mediated by G(i) proteins which activate a phosphatidylinositol-calcium second messenger system. Can function as a chemoattractant homing receptor on circulating memory lymphocytes and as a coreceptor for some primary HIV-2 isolates. In the CNS, could mediate hippocampal-neuron survival. |
| **Other Notes** | Small volumes of anti-CD194 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for CD194 purchase** | MBS2579744 is an antibody targeting CD194. Also known as Purified Anti-Human CD194 Antibody [L291H4]. Reactive in Human. Host: Mouse. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD194. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 5031627 |
| **NCBI GeneID** | 1233 |
| **NCBI Accession #** | NP_005499.1 |

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| **UniProt Primary Accession #** | P51679 |
| **UniProt Secondary Accession #** | Q9ULY6; Q9ULY7 |
| **UniProt Related Accession #** | P51679 |
| **GenBank Nucleotide #** | NM_005508.4 |
| **NCBI Official Full Name** | C-C chemokine receptor type 4 |
| **NCBI Official Synonym Full Names** | chemokine (C-C motif) receptor 4 |
| **NCBI Official Symbol** | CCR4 |
| **NCBI Official Synonym Symbols** | CKR4; K5-5; CD194; CMKBR4; ChemR13; CC-CKR-4; HGCN:14099 |
| **UniProt Protein Name** | C-C chemokine receptor type 4 |
| **UniProt Synonym Protein Names** | K5-5 |
| **Protein Family** | C-C chemokine receptor |
| **UniProt Gene Name** | CCR4 |
| **UniProt Synonym Gene Names** | CMKBR4; C-C CKR-4; CC-CKR-4; CCR-4; CCR4 |
| **UniProt Entry Name** | CCR4_HUMAN |
| **NCBI Protein Information** | C-C chemokine receptor type 4; CCR-4; C-C CKR-4; chemokine (C-C) receptor 4 |
| **NCBI Summary for CD194** | The protein encoded by this gene belongs to the G-protein-coupled receptor family . It is a receptor for the CC chemokine - MIP-1, RANTES, TARC and MCP-1. Chemokines are a group of small polypeptide, structurally related molecules that regulate cell trafficking of various types of leukocytes. The chemokines also play fundamental roles in the development, homeostasis, and function of the immune system, and they have effects on cells of the central nervous system as well as on endothelial cells involved in angiogenesis or angiostasis. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for CD194** | CCR4: High affinity receptor for the C-C type chemokines CCL17/TARC and CCL22/MDC. The activity of this receptor is mediated by G(i) proteins which activate a phosphatidylinositol- calcium second messenger system. Can function as a chemoattractant homing receptor on circulating memory lymphocytes and as a coreceptor for some primary HIV-2 isolates. In the CNS, could mediate hippocampal-neuron survival. Belongs to the G-protein coupled receptor 1 family.<br><br>Protein type: Receptor, GPCR; GPCR, family 1; Membrane protein, integral; Motility/polarity/chemotaxis; Membrane protein, multi-pass<br><br>Chromosomal Location of Human Ortholog: 3p24<br><br>Cellular Component: cell soma; integral to plasma membrane; plasma membrane; external side of plasma membrane<br><br>Molecular Function: C-C chemokine receptor activity; chemokine receptor activity<br><br>Biological Process: response to antibiotic; G-protein coupled receptor protein signaling pathway; response to radiation; elevation of cytosolic calcium ion concentration; positive regulation of positive chemotaxis; response to bacterium; neuron migration; immune response; chemotaxis; inflammatory response; tolerance induction |
| **Research Articles on CD194** | **1.** lymph node metastasis of CCR4(+) HNSCC is promoted by CCL22 in an autocrine or M2-like macrophage-dependent paracrine manner. |
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