

Anti-CCR2/CD192 Antibody-APC (30968)

Product Details

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| Ig Type: | Mouse IgG1 |
| Reactivity: | Human |
| Conjugation: | APC |
| Clone: | 30968 |
| Purification: | Protein A |

Applications

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| Verified Activity: | Flow cytometric analysis of Human CD192 expression on human whole blood monocytes. Cells were stained with APC-conjugated anti-Human CD192. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells. |
| Application: | FCM |
| Recommended | 5 µl/Test, 0.1 mg/ml |

Properties

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| Stability & Storage: | Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight. Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal. |
| Shipping: | Shipping with blue ice. |

Antigen Details

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| Immunogen: | A synthetic peptide: center region of the Human CCR2/CD192 |
| Antigen Species: | Human |
| Synonyms: | CC-CKR-2;CKR2A;CMKBR2;CKR2;CD192;CCR2A;PCLUD;CCR2B;CKR2B;CCR-2;MCP-1-R;FLJ78302 |
| Biology Area: | Neuroinflammation |

Research Background

The C-C motif chemokine receptor-2 (CCR2) is a G protein-coupled receptor (GPCR), made up of a carboxy-terminus, extracellular amino terminus, and a hydrophobic transmembrane domain consisting of 7 amino acid segments that mediates agonist-dependent calcium mobilization and inhibition of adenylyl cyclase. CCR2 is expressed on monocytes, immature dendritic cells, and T-cell subpopulations, and mediates their migration towards endogenous CCL2. CCR2 is necessary for macrophage-dependent inflammatory responses and the development of atherosclerosis. In mice, CCR2 deficiency reduced macrophage content, increased adiponectin expression, ameliorated hepatic steatosis, and improved systemic glucose homeostasis and insulin sensitivity. Resistance to HIV-1 infection or delayed progression to AIDS may be linked to CCR2 polymorphisms. Furthermore, CCR2 mRNA was highly expressed in prostate cancer (PCa) metastatic tissues compared with benign prostate tissues according to real-time RT-PCR3, suggesting that CCR2 may contribute to PCa development.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481