

CKR-5 Polyclonal Antibody

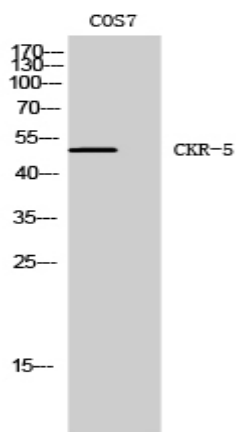
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| Catalog No : | YT0937 |
| Reactivity : | Human;Monkey |
| Applications : | WB;ELISA |
| Target : | CKR-5 |
| Fields : | >>Viral life cycle - HIV-1;>>Cytokine-cytokine receptor interaction;>>Viral protein interaction with cytokine and cytokine receptor;>>Chemokine signaling pathway;>>Endocytosis;>>Toxoplasmosis;>>Human cytomegalovirus infection;>>Kaposi sarcoma-associated herpesvirus infection;>>Human immunodeficiency virus 1 infection;>>Viral carcinogenesis |
| Gene Name : | CCR5 |
| Protein Name : | C-C chemokine receptor type 5 |
| Human Gene Id : | 1234 |
| Human Swiss Prot No : | P51681 |
| Mouse Swiss Prot No : | P51682 |
| Immunogen : | The antiserum was produced against synthesized peptide derived from human CCR5. AA range:303-352 |
| Specificity : | CKR-5 Polyclonal Antibody detects endogenous levels of CKR-5 protein. |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Polyclonal, Rabbit,IgG |
| Dilution : | WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications. |
| Purification : | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |

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| Concentration : | 1 mg/ml |
| Storage Stability : | -15°C to -25°C/1 year(Do not lower than -25°C) |
| Observed Band : | 50kD |
| Cell Pathway : | Cytokine-cytokine receptor interaction;Chemokine;Endocytosis; |
| Background : | <p>This gene encodes a member of the beta chemokine receptor family, which is predicted to be a seven transmembrane protein similar to G protein-coupled receptors. This protein is expressed by T cells and macrophages, and is known to be an important co-receptor for macrophage-tropic virus, including HIV, to enter host cells. Defective alleles of this gene have been associated with the HIV infection resistance. The ligands of this receptor include monocyte chemoattractant protein 2 (MCP-2), macrophage inflammatory protein 1 alpha (MIP-1 alpha), macrophage inflammatory protein 1 beta (MIP-1 beta) and regulated on activation normal T expressed and secreted protein (RANTES). Expression of this gene was also detected in a promyeloblastic cell line, suggesting that this protein may play a role in granulocyte lineage proliferation and differentiation. This gene is located at the chemok</p> |
| Function : | <p>disease:Genetic variation in CCR5 is associated with susceptibility to insulin-dependent diabetes mellitus type 2 (IDDM2) [MIM:612522]. IDDM is caused by the body's own immune system which destroys the insulin-producing beta cells in the pancreas. Classical features are polydipsia, polyphagia and polyuria, due to hyperglycemia-induced osmotic diuresis.,function:Receptor for a number of inflammatory CC-chemokines including MIP-1-alpha, 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. Acts as a coreceptor (CD4 being the primary receptor) for HIV-1 R5 isolates.,online information:CC chemokine receptors entry,online information:CCR5 receptor entry,polymorphism:Ser-60 variant, a naturally occurring mutation in a conserved residue in the first i</p> |
| Subcellular Location : | Cell membrane ; Multi-pass membrane protein . |
| Expression : | 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. |
| Sort : | 4070 |
| No4 : | 1 |
| Host : | Rabbit |

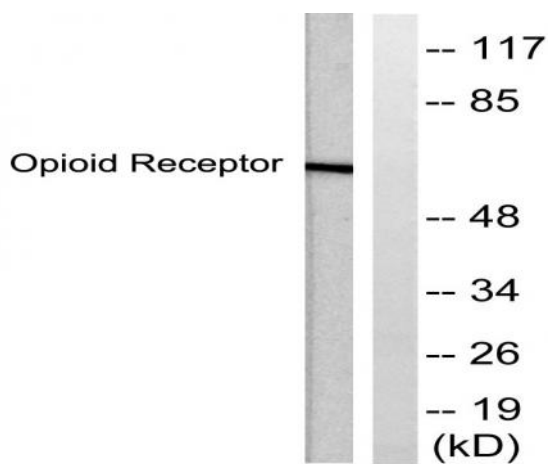
Modifications :

Unmodified

Products Images



Western Blot analysis of COS7 cells using CKR-5 Polyclonal Antibody



Western blot analysis of lysates from COS7 cells, using CCR5 Antibody. The lane on the right is blocked with the synthesized peptide.