

## **CKR-5 Polyclonal Antibody**

Catalog No: YT5873

**Reactivity:** Human; Rat; Mouse;

**Applications:** WB;IHC;IF;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 CMKBR5

Protein Name: C-C chemokine receptor type 5 (C-C CKR-5) (CC-CKR-5) (CCR5)

(CHEMR13) (HIV-1 fusion coreceptor) (CD antigen CD195)

Human Gene Id: 1234

**Human Swiss Prot** 

No:

Mouse Gene Id: 12774

**Mouse Swiss Prot** 

No:

Immunogen: Synthetic peptide from human protein at AA range: 151-200

**Specificity:** The antibody detects endogenous CKR-5

P51681

P51682

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution :** WB 1:500-2000,IHC 1:500-200, ELISA 1:10000-20000. IF 1:50-200

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-



chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 40kD

**Cell Pathway:** Cytokine-cytokine receptor interaction; Chemokine; Endocytosis;

**Background:** 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

**Function:** disease:Genetic variation in CCR5 is associated with suseptibility to insulin-

dependent diabetes mellitus type 22 (IDDM22) [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

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**: 4068

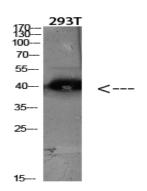
2/3



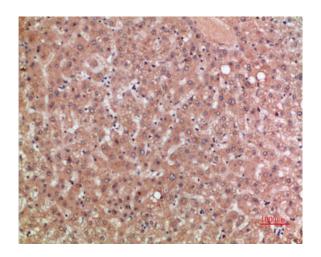
Host: Rabbit

Modifications: Unmodified

## **Products Images**



Western blot analysis of 293T lysate, antibody was diluted at 2000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded humanliver, antibody was diluted at 1:200