

Human CC-Chemokine Receptor 5 (CCR5) ELISA Kit

Catalog No: #EK12023



Package Size: #EK12023-1 48T #EK12023-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Human CC-Chemokine Receptor 5 (CCR5) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CC-CKR-5; CCCKR5; CD195; CKR-5; CKR5; CMKBR5; FLJ78003; IDDM22; C-C chemokine receptor type 5 C-C motif chemokine receptor 5 A159A OTTHUMP00000209784 chemokine receptor CCR5 chemr13
Accession No.	Q2HJ17
Uniprot	Q2HJ17
GenID	497017;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:6.0 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate CCR5 in samples. An antibody specific for CCR5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCCR5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CCR5 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CCR5 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**CCR5 is a member of the beta chemokine receptors family of integral membrane proteins.In Humans, the CCR5 gene location is on the short (p) arm at position 21 on chromosome 3. Certain populations have inherited the?Delta 32?mutation resulting in the Genetic deletion of the CCR5 gene. Homozygous carriers of this mutation are resistant to HIV-1 infection. The CCR5 protein is a seven transmembrane protein which functions as a chemokine receptor in the CC chemokine group. The natural chemokine ligands that bind to this receptor are RANTES, MIP-1 α ?and MIP-1 β . CCR5 is predominantly expressed on T cells, macrophages, dendritic cells and microglia. It is likely that CCR5 plays a role in inflammatory responses to infection, though its exact role in normal immune function is unclear.

Note: This product is for in vitro research use only