

Human CC-chemokine receptor 1 (CCR1) ELISA Kit

Catalog No: #EK11305



Package Size: #EK11305-1 48T #EK11305-2 96T

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Human CC-chemokine receptor 1 (CCR1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CD191; CKR-1; CKR1; CMKBR1; HM145; MIP1aR; SCYAR1; RANTES receptor
Accession No.	P32246
Uniprot	P32246
GeneID	1230;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.057 ng/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 CCR1 in samples. An antibody specific for CCR1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCCR1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CCR1 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 CCR1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:CCR1 is a member of the beta chemokine receptor family, which belongs to G protein-coupled receptors. The ligands of this receptor include macrophage inflammatory protein 1 alpha (MIP-1 alpha), regulated on activation normal T expressed and secreted protein, monocyte chemoattractant protein 3, and myeloid progenitor inhibitory factor-1 (MPIF-1). Chemokines and their receptors, which mediate signal transduction, are critical for the recruitment of effector immune cells to the site of inflammation. Knockout studies of the mouse homolog suggested the roles of this gene in host protection from inflammatory response, and susceptibility to virus and parasite. This gene and other chemokine receptor genes, including CCR2, CCRL2, CCR3, CCR5 and CXCR1, are found to form a gene cluster on chromosome 3p.

Note: This product is for in vitro research use only