

Human CXCR7 ELISA Kit



Catalog No: #EK11281

Orders: order@signalwayantibody.com

Package Size: #EK11281-1 48T #EK11281-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human CXCR7 ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CMKOR1; GPR159; RDC1; G protein-coupled receptor chemokine orphan receptor 1
Accession No.	P25106
Uniprot	P25106
GeneID	57007;
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:0.056 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 CXCR7 in samples. An antibody specific for CXCR7 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCXCR7 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CXCR7 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 CXCR7 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**C-X-C chemokine receptor type 7 is a member of the G-protein coupled receptor family. Although this protein was earlier thought to be a receptor for vasoactive intestinal peptide (VIP) and was considered to be an orphan receptor, it has been later been shown to bind the chemokines CXCL12/SDF-1 and CXCL11.

The protein is also a coreceptor for human immunodeficiency viruses (HIV). Translocations involving this gene and HMGA2 on chromosome 12 have been observed in lipomas. Alternatively spliced transcript variants encoding the same protein isoform have been found for this gene. Whereas some reports claim that the receptor induces signaling following ligand binding, recent findings in zebrafish suggest that CXCR7 functions primarily by sequestering the chemokine CXCL12.

Note: This product is for in vitro research use only