

Human Duffy antigen/chemokine receptor (DARC) ELISA Kit



Catalog No: #EK11277

Orders: order@signalwayantibody.com

Package Size: #EK11277-1 48T #EK11277-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Duffy antigen/chemokine receptor (DARC) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CTA-134P22.3; CCBP1; CD234; Dfy; FY; GPD; GpFy; WBCQ1; Duffy blood group antigen Fy glycoprotein OTTHUMP00000035293 OTTHUMP00000035294 glycoprotein D
Accession No.	Q16570
Uniprot	Q16570
GeneID	2532;
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:0.156-10 ng/mL

Sensitivity:0.062 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: Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate DARC in samples. An antibody specific for DARC has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any DARC present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DARC 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 DARC bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview: Duffy blood group, chemokine receptor (DARC) acts as a non-classical chemokine receptor that does not signal but rather acts as a scavenger protein. It is also the receptor for the human malaria parasites *Plasmodium vivax* and *Plasmodium knowlesi*. The Duffy system enjoys the distinction of being the first blood group whose genetic locus was assigned to a specific autosome, i.e., chromosome 1. On the basis of families studied in Rochester, N.Y., Weitkamp (1972) could demonstrate no linkage of the HBB locus and Duffy, as had been suggested by Nance et al. (1970). An earlier suspicion of localization to chromosome 16 was apparently in error. Duffy and the locus for a form of hereditary cataract are closely linked. From extensive family studies, Robson et al. (1973) arrived at a tentative map of chromosome 1.

Note: This product is for in vitro research use only