Human Killer cell immunoglobulin-like receptor 2DS4 (KIR2DS4) ELISA Kit

Catalog No: #EK10221

Package Size: #EK10221-1 48T #EK10221-2 96T

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

Description

Product Name	Human Killer cell immunoglobulin-like receptor 2DS4 (KIR2DS4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	XXbac-BPG230H20.3; CD158I; KIR1D; KIR412; KKA3; MGC120019; MGC125315; MGC125317; NKAT8; KIR antigen 2DS4|killer inhibitory receptor 4-1-2|natural killer cell inhibitory receptor
Accession No.	P43632
Uniprot	P43632
GeneID	3809;
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:1.56-100 ng/mL

Sensitivity:0.66 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 KIR2DS4 in samples. An antibody specific for KIR2DS4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKIR2DS4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KIR2DS4 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 KIR2DS4 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Using primers known to amplify HLA-C-specific NK receptors to screen clones with NK triggering activity, Bottino et al. (1996) also isolated a KIR2DS4 cDNA, which they termed KKA3. Sequence analysis revealed that KIR2DS4 encodes a deduced 304-amino acid protein with an extracellular domain similar to that of KIR2D p58 receptors; however, in the transmembrane region, there is a charged lysine residue, and the cytoplasmic tail has only 39 amino acids with no ITIM (immunoreceptor tyrosine-based inhibitory motif). KIRs with short cytoplasmic tails are associated with NK cell triggering rather than inhibition. Immunoprecipitation analysis showed that KIR2DS4 is expressed in 2 forms, one of 35 to 45 kD and the other of 55 to 58 kD. Flow cytometry analysis showed that KIR2DS4, unlike KIR2DS1 and KIR2DS2, was expressed in only a minority of individuals tested.

Note: This product is for in vitro research use only