Human Sialic acid-binding Ig-like lectin 8 (SIGLEC8) ELISA Kit

Catalog No: #EK7333

Package Size: #EK7333-1 48T #EK7333-2 96T

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

Description

Product Name	Human Sialic acid-binding Ig-like lectin 8 (SIGLEC8) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MGC59785; SAF2; SIGLEC-8; SIGLEC8L;
Accession No.	Q9NYZ4
Uniprot	Q9NYZ4
GeneID	27181;
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:0.058 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 SIGLEC8 in samples. An antibody specific for SIGLEC8 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySIGLEC8 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SIGLEC8 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 SIGLEC8 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Floyd et al. (2000) identified a cDNA from an eosinophil cDNA library encoding SIGLEC8. Sequence analysis predicted that like other SIGLECs, the 431-amino acid, type 1 transmembrane protein contains a signal peptide, an N-terminal V-set domain, and 2 C2-set domains, as well as 3 potential N-linked glycosylation sites and a transmembrane region; however, SIGLEC8 has a truncated 47-residue cytoplasmic tail lacking the conserved tyrosine-based motifs.
Binding analysis confirmed that SIGLEC8 binds to red blood cell sialic acids with a preference for 3-prime over 6-prime sialyllactose-conjugated polyacrylamide. FACS and immunoprecipitation analyses demonstrated SIGLEC8 expression on eosinophils but not other leukocytes as a 45- and 89-kD dimer.

Note: This product is for in vitro research use only