Human Neural cell adhesion molecule ligand 1 (NCAM-L1) ELISA Kit

Catalog No: #EK10167

Package Size: #EK10167-1 48T #EK10167-2 96T

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

Description

Product Name	Human Neural cell adhesion molecule ligand 1 (NCAM-L1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CAML1; CD171; HSAS; HSAS1; MASA; MIC5; N-CAML1; S10; SPG1; OTTHUMP00000025992|OTTHUMP00000063091|antigen identified by monoclonal antibody R1|neural cell adhesion molecule L1
Accession No.	P32004
Uniprot	P32004
GeneID	3897;
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:0.63 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 L1CAM in samples. An antibody specific for L1CAM has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyL1CAM present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for L1CAM 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 L1CAM bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Neural Cell Adhesion Molecule (NCAM, also the cluster of differentiation CD56) is a homophilic binding glycoprotein expressed on the surface of neurons, glia, skeletal muscle and natural killer cells. NCAM has been implicated as having a role in cell-cell adhesion, neurite outgrowth, synaptic plasticity, and learning and memory.

NCAM can be posttranslationally modified by the addition of polysialic acid (PSA) to the fifth Ig domain, which is thought to abrogate its homophilic binding properties and can lead to reduced cell adhesion important in cell migration and invasion. PSA has been shown to be critical in learning and

memory. Removal of PSA from NCAM by the enzyme endoneuraminidase (EndoN) has been shown to abolish long-term potentiation (LTP) and long-term depression (LTD).

Note: This product is for in vitro research use only