

Rat Neural cell adhesion molecule L1 (L1CAM) ELISA Kit



Catalog No: #EK10166

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Package Size: #EK10166-1 48T #EK10166-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Rat Neural cell adhesion molecule L1 (L1CAM) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
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.	Q05695
Uniprot	Q05695
GeneID	50687;
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:78.1-5000 pg/mL

Sensitivity:25 pg/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:**L1, also known as L1CAM, is a transmembrane protein; it is a neuronal cell adhesion molecule, member of the L1 protein family, of 200-220 kDa, and involved in axon guidance and cell migration with a strong implication in treatment-resistant cancers. L1CAM has also been designated CD171 . The protein encoded by this gene is an axonal glycoprotein belonging to the immunoglobulin superfamily of proteins. The ectodomain, consisting of several immunoglobulin-like domains and fibronectin-like repeats (type III), is linked via a single transmembrane sequence to a conserved cytoplasmic domain. This cell adhesion molecule plays an important role in nervous

system development, including neuronal migration, and differentiation. Mutations in the gene cause three X-linked neurological syndromes known by the acronym CRASH.

Note: This product is for in vitro research use only