Human Phosphatidylinositol-binding clathrin assembly protein (PICALM) ELISA Kit

Catalog No: #EK8519

Package Size: #EK8519-1 48T #EK8519-2 96T

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

Description

Product Name	Human Phosphatidylinositol-binding clathrin assembly protein (PICALM) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CALM; CLTH; LAP; clathrin assembly lymphoid-myeloid leukemia|phosphatidylinositol-binding clathrin assembly protein
Accession No.	Q13492
Uniprot	Q13492
GeneID	8301;
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:0.312-20 ng/mL

Sensitivity:0.118 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 PICALM in samples. An antibody specific for PICALM has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPICALM present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PICALM 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 PICALM bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Dreyling et al. (1996) identified a breakpoint on chromosome 11 involving the previously unknown gene, CALM. CALM has a very high homology to the murine clathrin assembly protein ap3. Mao et al. (2001) determined the crystal structure of the N-terminal domain (the NAP domain) of the Drosophila Lap protein, which is homologous to human PICALM. The structure revealed a novel fold consisting of a large double layer of sheets of 10 alpha helices and a unique site for binding phosphoinositides.This motif is found in other proteins predicted to have domains of similar structure (e.g., Huntingtin-interacting protein-1). The structure is in part similar to the epsin N-terminal (ENTH) domain, but epsin lacks the phosphatidylinositol-4,5-bisphosphate-binding site.

Note: This product is for in vitro research use only