Mouse Lysosome-associated membrane glycoprotein 3 (LAMP3) ELISA Kit

Catalog No: #EK11537

Package Size: #EK11537-1 48T #EK11537-2 96T

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

Description

Product Name	Mouse Lysosome-associated membrane glycoprotein 3 (LAMP3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	CD208; DC-LAMP; DCLAMP; LAMP; TSC403;
Accession No.	Q7TST5
Uniprot	Q7TST5
GeneID	239739;
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:0.054 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 LAMP3 in samples. An antibody specific for LAMP3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLAMP3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LAMP3 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 LAMP3 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:LAMP3 may play a role in dendritic cell function and in adaptive immunity.
By screening a DC subtraction library, de Saint-Vis et al. (1998) isolated a cDNA encoding DCLAMP. Sequence analysis predicted that the 416-amino acid type I integral membrane protein has an N-terminal signal peptide, followed by a 381-amino acid extracellular domain, a hydrophobic transmembrane domain, and a 10-amino acid cytoplasmic domain containing a conserved GY lysosomal targeting motif, characteristic of LAMP family members.
The DCLAMP protein contains multiple N- and O-glycosylation sites. Northern blot and RT-PCR analysis revealed expression of a 3.2-kb transcript in appendix, thymus, lymph node, lung, and weakly in spleen, as well as in dendritic cell lines; expression was weak or undetectable in other cell lines.

Note: This product is for in vitro research use only