

Mouse Vinculin (VCL) ELISA Kit

Catalog No: #EK5891



Package Size: #EK5891-1 48T #EK5891-2 96T

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Description

Product Name	Mouse Vinculin (VCL) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (<i>Mus musculus</i>)
Other Names	RP11-178G16.3; CMD1W; MVCL; metavinculin
Accession No.	Q64727
Uniprot	Q64727
GeneID	22330;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.128 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 VCL in samples. An antibody specific for VCL has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyVCL present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for VCL 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 VCL bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**In mammalian cells, vinculin is a membrane-cytoskeletal protein in focal adhesion plaques that is involved in linkage of integrin adhesion molecules to the actin cytoskeleton. Its sequence is 20-30% homologous to α -catenin, which serves a similar function. Vinculin is a 117 kDa cytoskeletal protein with 1066 amino acids. The protein contains an acidic N-terminal domain and a basic C-terminal domain separated by a proline-rich middle segment. Vinculin consists of a globular head domain that contains binding sites for talin and α -actinin as well as a tyrosine phosphorylation site, while the tail region contains binding sites for F-actin, paxillin and lipids.

Note: This product is for in vitro research use only