Mouse Cyclophilin A (CyPA) ELISA Kit

Catalog No: #EK8373

Package Size: #EK8373-1 48T #EK8373-2 96T

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

Description

Product Name	Mouse Cyclophilin A (CyPA) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	CYPA; CYPH; MGC117158; MGC12404; MGC23397; PPIase A|T cell cyclophilin|cyclosporin A-binding protein|peptidyl-prolyl cis-trans isomerase A|peptidylprolyl isomerase A|rotamase A
Accession No.	P17742
Uniprot	P17742
GeneID	268373;
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:1.25-80 ng/mL

Sensitivity:0.49 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 PPIA in samples. An antibody specific for PPIA has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPPIA present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PPIA 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 PPIA bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Cyclophilin A, also called Peptidyl-prolyl Isomerase A, PPIA, CYPA, and CYPH, was originally characterized for its ability to catalyze the transition between cis- and trans- proline residues critical for proper folding of proteins. Cyclophilin is also incorporated into many viruses, including HIV-1, where it has been speculated to be involved in functions such as viral assembly and infectivity. The immunosuppressive activity of cyclosporins has been correlated with their ability to form complexes with cyclophilins that inhibit calcineurin phosphatase activity and prevent incorporation of cyclophilin into viral particles. The cyclosporin/cyclophilin complex selectively binds and inactivates calcineurin, making it a useful inhibitor for studying calcineurin activity.

Note: This product is for in vitro research use only