

Human Plakophilin-1 (PKP1) ELISA Kit

Catalog No: #EK11182



Package Size: #EK11182-1 48T #EK11182-2 96T

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Description

Product Name	Human Plakophilin-1 (PKP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	B6P; MGC138829; OTTHUMP00000033849 band 6 protein plakophilin 1
Accession No.	Q13835
Uniprot	Q13835
GeneID	5317;
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:0.125 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 PKP1 in samples. An antibody specific for PKP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPKP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PKP1 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 PKP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Plakophilin-1 is a member of the arm-repeat (armadillo) and plakophilin gene families. Plakophilin proteins contain numerous armadillo repeats, localize to cell desmosomes and nuclei, and participate in linking cadherins to intermediate filaments in the cytoskeleton. This protein may be involved in molecular recruitment and stabilization during desmosome formation. Mutations in this gene have been associated with the ectodermal dysplasia/skin fragility syndrome.Compared with those in controls, desmosomes in PKP1-null patients were reduced dramatically both in size (49%) and frequency (61%) in the lower suprabasal layers (P less than 0.01). In the lower suprabasal compartment of the heterozygous carrier, corresponding reductions were 37% and 20%, respectively (P less than 0.01).

Note: This product is for in vitro research use only