

Bovine Peripherin-2 (PRPH2) ELISA Kit

Catalog No: #EK8121



Package Size: #EK8121-1 48T #EK8121-2 96T

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Description

Product Name	Bovine Peripherin-2 (PRPH2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	AOFMD; AVMD; CACD2; PRPH; RDS; RP7; TSPAN22; rd2; peripherin 2 peripherin 2; homolog of mouse peripherin; photoreceptor type retinal peripherin tetraspanin-22
Accession No.	P17810
Uniprot	P17810
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:Request Information

Sensitivity:Request Information

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:Sandwich**Test principle:**This assay employs a two-site sandwich ELISA to quantitate PRPH2 in samples. An antibody specific for PRPH2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRPH2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRPH2 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 PRPH2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Peripherin 2 is a cell surface glycoprotein found in the outer segment of both rod and cone photoreceptor cells. It is located in the rim regions of the flattened disks that contain rhodopsin, which is the protein that is responsible for initiation of visual phototransduction upon reception of light. Peripherin 2 may function as an adhesion molecule involved in stabilization and compaction of outer segment disks or in the maintenance of the curvature of the rim. This protein is essential for disk morphogenesis. Defects in this gene are associated with both central and peripheral retinal degenerations. Some of the various phenotypically different disorders are autosomal dominant retinitis pigmentosa, progressive macular degeneration, macular dystrophy and retinitis pigmentosa digenic.

Note: This product is for in vitro research use only