Bovine NADPH--cytochrome P450 reductase (POR) ELISA Kit

Catalog No: #EK11433

Package Size: #EK11433-1 48T #EK11433-2 96T

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

Description

Product Name	Bovine NADPH--cytochrome P450 reductase (POR) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	CPR; CYPOR; DKFZp686G04235; FLJ26468; P450R; NADPH-dependent cytochrome P450 reductase|cytochrome P450 reductase
Accession No.	Q3SYT8
Uniprot	Q3SYT8
GeneID	532512;
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: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:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate POR in samples. An antibody specific for POR has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPOR present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for POR 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 POR bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:By Southern blot analysis of DNA isolated from a panel of 8 independent human-rodent somatic cell hybrids, Shephard et al. (1989) determined that cytochrome P450 reductase is encoded by a single gene located on 7pter-q22. By in situ hybridization to metaphase chromosomes, they refined the localization to 7q11.2.

In 4 unrelated patients with disordered steroidogenesis including a woman with amenorrhea and 3 children with bony features of Antley-Bixler syndrome, Fluck et al. (2004) found mutations in the POR gene. This was somewhat surprising since the affected individuals lacked apparent disorders of bile acid synthesis or drug metabolism, which also requires P450 enzymes, and knockout of POR is embryonically lethal in mice

Note: This product is for in vitro research use only