

Rat Cytochrome P450 Reductase (CPR) ELISA Kit | CPR elisa kit

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CATALOG #
AAA138611

REACTIVITY
Rat

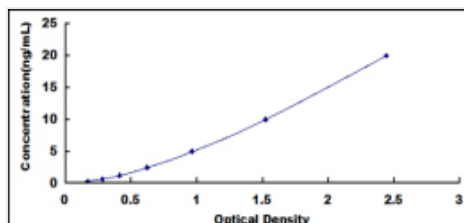
PRODUCT SYNONYMS

Cytochrome P450 Reductase (CPR); Rat Cytochrome P450 Reductase (CPR) ELISA Kit; POR; CYPOR; P450R; P450(Cytochrome)Oxidoreductase; NADPH--cytochrome P450 reductase; CPR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Cytochrome P450 Reductase (CPR). No significant cross-reactivity or interference between Cytochrome P450 Reductase (CPR) and analogues was observed.
Sequence Length	677
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.107ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Cytochrome P450 Reductase (CPR) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Cytochrome P450 Reductase (CPR) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of 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. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CPR elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Cytochrome P450 Reductase (CPR). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Cytochrome P450 Reductase (CPR). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Cytochrome P450 Reductase (CPR), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Cytochrome P450 Reductase (CPR) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for CPR elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	247307
NCBI GeneID	5447
UniProt Accession #	P16435; Q16455; Q197M5; Q8N181; Q9H3M8; Q9UDT3
Molecular Weight	76,690 Da
NCBI Official Full Name	cytochrome P450 reductase, partial
NCBI Official Synonym Full Names	P450 (cytochrome) oxidoreductase
NCBI Official Symbol	POR
NCBI Official Synonym Symbols	CPR; CYPOR; P450R
NCBI Protein Information	NADPH--cytochrome P450 reductase
UniProt Protein Name	NADPH--cytochrome P450 reductase
UniProt Gene Name	POR
UniProt Synonym Gene Names	CYPOR; CPR; P450R
UniProt Entry Name	NCPR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/cytochrome-p450-reductase-cpr/138611>