

Human Cytochrome P450 21B (CYP21B) ELISA Kit | CYP21B elisa kit

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CATALOG #
AAA148574

REACTIVITY
Human

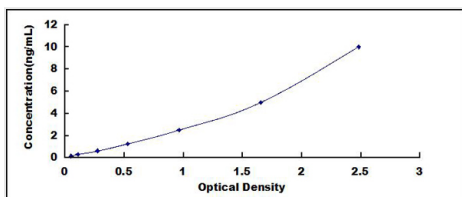
PRODUCT SYNONYMS

Cytochrome P450 21B (CYP21B); Human Cytochrome P450 21B (CYP21B) ELISA Kit; CYP21A2; CPS1; CA21H; CAH1; CYP21; CYP21-B; 21-OHase; Steroid 21-hydroxylase; Cytochrome P450; Family 21; Subfamily A; Polypeptide 2; CYP21B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Cytochrome P450 21B (CYP21B). No significant cross-reactivity or interference between Cytochrome P450 21B (CYP21B) and analogues was observed.
Sequence Length	465
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.057ng/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 21B (CYP21B) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Cytochrome P450 21B (CYP21B) 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 CYP21B 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 21B (CYP21B). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Cytochrome P450 21B (CYP21B). 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 21B (CYP21B), 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 21B (CYP21B) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for CYP21B elisa kit	Enzyme & Kinase; Metabolic pathway; Endocrinology; Hormone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	323510663
NCBI GeneID	1589
NCBI Accession #	NP_000491.4
NCBI GenBank Nucleotide #	NM_000500.7
UniProt Accession #	P08686; P04033; Q01204; Q08AG8; Q16749; Q16806; Q5ST44; Q96NU8; A2BHY6
Molecular Weight	52,597 Da
NCBI Official Full Name	steroid 21-hydroxylase isoform a
NCBI Official Synonym Full Names	cytochrome P450 family 21 subfamily A member 2
NCBI Official Symbol	CYP21A2
NCBI Official Synonym Symbols	CAH1; CPS1; CA21H; CYP21; CYP21B; P450c21B
NCBI Protein Information	steroid 21-hydroxylase
UniProt Protein Name	Steroid 21-hydroxylase
UniProt Gene Name	CYP21A2
UniProt Synonym Gene Names	CYP21; CYP21B

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/human-elisa-kits/cytochrome-p450-21b-cyp21b/148574>