

Rat CYP21A1 (Steroid 21-hydroxylase) ELISA Kit | CYP21A1 elisa kit

Rat CYP21A1 (Steroid 21-hydroxylase) ELISA Kit

CATALOG #
AAA249006

REACTIVITY
Rat

PRODUCT SYNONYMS

CYP21A1 (Steroid 21-hydroxylase); Rat CYP21A1 (Steroid 21-hydroxylase) ELISA Kit; CYP21A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of CYP11B1. No significant cross-reactivity or interference between CYP11B1 and analogues was observed.
Sequence Length	360
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CYP11B1 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CYP11B1 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a CYP21A1 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A-not applicable)

X	ng/ml	0	0.156	0.312	0.625	1.25	2.5	5	10
Y	OD450	0.108	0.185	0.25	0.462	0.628	1.138	1.582	2.11

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CYP21A1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-CYP11B1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-CYP11B1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the CYP11B1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of CYP11B1 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1559191263
NCBI GeneID	1589
NCBI Accession #	NP_001355072.1
NCBI GenBank Nucleotide #	NM_001368143.1
Molecular Weight	52,597 Da
NCBI Official Full Name	steroid 21-hydroxylase isoform c
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/cyp21a1-steroid-21-hydroxylase/249006>