

## Rat CYTOCHROME P-45017 ALPHA GENE (CYP17) ELISA Kit | CYP17 elisa kit

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CATALOG #  
**AAA87973**

REACTIVITY  
**Rat**

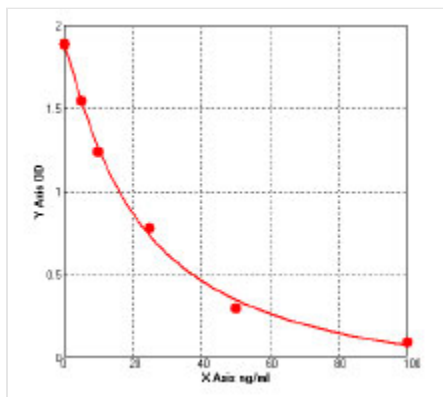
### PRODUCT SYNONYMS

CYTOCHROME P-45017 ALPHA GENE (CYP17); Rat CYTOCHROME P-45017 ALPHA GENE ELISA KIT (CYP17); CYP17 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                                                                                                                                                                                                                         |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of CYP17. No significant cross-reactivity or interference between CYP17 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CYP17 and all the analogues, therefore, cross reaction may still exist in some cases. |
| Sequence Length         | 508                                                                                                                                                                                                                                                                                                                                                                                         |
| Samples                 | Serum, plasma, cell culture supernatants, body fluid and tissue homogenate                                                                                                                                                                                                                                                                                                                  |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                    |
| Sensitivity             | 1.0 ng/mL                                                                                                                                                                                                                                                                                                                                                                                   |
| Preparation and Storage | Store all reagents at 2-8 degree C                                                                                                                                                                                                                                                                                                                                                          |

### IMAGES



Standard Curve (Sample)

## ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CYP17 elisa kit | <p>Intended Uses: This CYP17 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat CYP17. This ELISA kit for research use only!</p> <p>Principle of the Assay: CYP17 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CYP17 antibody and an CYP17-HRP conjugate. The assay sample and buffer are incubated together with CYP17-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CYP17 concentration since CYP17 from samples and CYP17-HRP conjugate compete for the anti-CYP17 antibody binding site. Since the number of sites is limited, as more sites are occupied by CYP17 from the sample, fewer sites are left to bind CYP17-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CYP17 concentration in each sample is interpolated from this standard curve.</p> |
| Product Categories/Family for CYP17 elisa kit   | Rat ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 386992                                                                                                                                                                                                                                                                            |
| NCBI GeneID                      | 1586                                                                                                                                                                                                                                                                              |
| UniProt Accession #              | P05093; Q5TZV7; Q1HB44                                                                                                                                                                                                                                                            |
| Molecular Weight                 | 57,371 Da                                                                                                                                                                                                                                                                         |
| NCBI Official Full Name          | cytochrome P450c17                                                                                                                                                                                                                                                                |
| NCBI Official Synonym Full Names | cytochrome P450, family 17, subfamily A, polypeptide 1                                                                                                                                                                                                                            |
| NCBI Official Symbol             | CYP17A1                                                                                                                                                                                                                                                                           |
| NCBI Official Synonym Symbols    | CPT7; CYP17; S17AH; P450C17                                                                                                                                                                                                                                                       |
| NCBI Protein Information         | steroid 17-alpha-hydroxylase/17,20 lyase; CYPXVII; OTTHUMP00000020382; cytochrome P450c17; cytochrome P450-C17; cytochrome P450 17A1; cytochrome p450 XVIIA1; steroid 17-alpha-monooxygenase; cytochrome P450, subfamily XVII (steroid 17-alpha-hydroxylase), adrenal hyperplasia |
| UniProt Protein Name             | Steroid 17-alpha-hydroxylase/17,20 lyase                                                                                                                                                                                                                                          |
| UniProt Gene Name                | <b>CYP17A1</b>                                                                                                                                                                                                                                                                    |
| UniProt Synonym Gene Names       | CYP17; S17AH                                                                                                                                                                                                                                                                      |
| UniProt Entry Name               | CP17A_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://www.aaabiotech.com/rat-elisa-kits/cytochrome-p-45017-alpha-gene-cyp17/87973>