

## Mouse Cholesterol 24-hydroxylase (CYP46A1) ELISA Kit | CYP46A1 elisa kit

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CATALOG #  
**AAA27253**

REACTIVITY  
**Mouse**

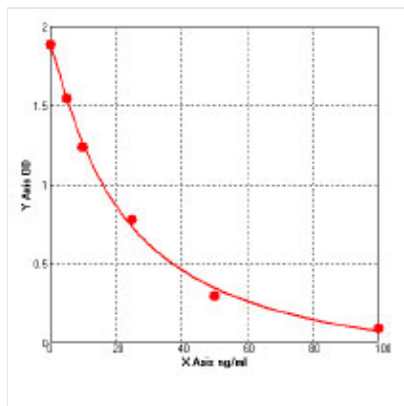
### PRODUCT SYNONYMS

Cholesterol 24-hydroxylase (CYP46A1); Mouse Cholesterol 24-hydroxylase (CYP46A1) ELISA Kit; CYP46A1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                                                                                                                                                                                                                                             |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of CYP46A1. No significant cross-reactivity or interference between CYP46A1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CYP46A1 and all the analogues, therefore, cross reaction may still exist in some cases. |
| 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 CYP46A1 elisa kit | <p>Intended Uses: This CYP46A1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse CYP46A1. This ELISA kit for research use only, not for therapeutic or test applications!</p> <p>Principle of the Assay: CYP46A1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CYP46A1 antibody and an CYP46A1-HRP conjugate. The assay sample and buffer are incubated together with CYP46A1-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 CYP46A1 concentration since CYP46A1 from samples and CYP46A1-HRP conjugate compete for the anti-CYP46A1 antibody binding site. Since the number of sites is limited, as more sites are occupied by CYP46A1 from the sample, fewer sites are left to bind CYP46A1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CYP46A1 concentration in each sample is interpolated from this standard curve.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                     |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 5729796                                                                                                             |
| NCBI GeneID                      | 10858                                                                                                               |
| NCBI Accession #                 | NP_006659.1                                                                                                         |
| NCBI GenBank Nucleotide #        | NM_006668.1                                                                                                         |
| Molecular Weight                 | 38,315 Da                                                                                                           |
| NCBI Official Full Name          | cholesterol 24-hydroxylase                                                                                          |
| NCBI Official Synonym Full Names | cytochrome P450, family 46, subfamily A, polypeptide 1                                                              |
| NCBI Official Symbol             | CYP46A1                                                                                                             |
| NCBI Official Synonym Symbols    | CP46; CYP46                                                                                                         |
| NCBI Protein Information         | cholesterol 24-hydroxylase; CH24H; cytochrome P450 46A1; cytochrome P450, subfamily 46 (cholesterol 24-hydroxylase) |
| UniProt Protein Name             | Cholesterol 24-hydroxylase                                                                                          |
| UniProt Gene Name                | CYP46A1                                                                                                             |
| UniProt Synonym Gene Names       | CYP46; CH24H                                                                                                        |
| UniProt Entry Name               | CP46A_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.