# Rat Cytochrome P450 2A6 (CYP2A6) ELISA Kit | CYP2A6 elisa kit

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| CATALOG # | REACTIVITY |
|---|---|
| **AAA245242** | **Rat** |

## PRODUCT SYNONYMS

Cytochrome P450 2A6 (CYP2A6); Rat Cytochrome P450 2A6 (CYP2A6) ELISA Kit; CYP2A6 elisa kit

## PRODUCT SPECIFICATIONS

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| **Reactivity** | Rat |
| **Samples** | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate |
| **Assay Type** | Competitive |
| **Detection Range** | 2.5-50ng/mL |
| **Sensitivity** | 0.1ng/ml |
| **Preparation and Storage** | Store all reagents at 2-8 degree C. |

## IMAGES

**Standard Curve (Sample)**

## ADDITIONAL INFORMATION

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| **Related Product Information for CYP2A6 elisa kit** | Intended Uses: This CYP2A6 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat CYP2A6. This ELISA kit for research use only!<br><br>Principle of the Assay\|\|CYP2A6 ELISA kit applies the competitive enzyme immunoassay technique utilizing a Polyclonal anti-CYP2A6 antibody and an CYP2A6-HRP conjugate. The assay sample and buffer are incubated together with CYP2A6-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 CYP2A6 concentration since CYP2A6 from samples and CYP2A6-HRP conjugate compete for the anti-CYP2A6 antibody binding site. Since the number of sites is limited, as more sites are occupied by CYP2A6 from the sample, fewer sites are left to bind CYP2A6-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CYP2A6 concentration in each sample is interpolated from this standard curve. |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 189339233 |
| **NCBI GeneID** | 1548 |
| **NCBI Accession #** | NP_000753.3 |

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|---|---|
| **NCBI GenBank Nucleotide #** | NM_000762.5 |
| **Molecular Weight** | 56,501 Da |
| **NCBI Official Full Name** | cytochrome P450 2A6 |
| **NCBI Official Synonym Full Names** | cytochrome P450, family 2, subfamily A, polypeptide 6 |
| **NCBI Official Symbol** | CYP2A6 |
| **NCBI Official Synonym Symbols** | CPA6; CYP2A; CYP2A3; P450PB; CYPIIA6; P450C2A |
| **NCBI Protein Information** | cytochrome P450 2A6; cytochrome P450(I); cytochrome P450 IIA3; coumarin 7-hydroxylase; xenobiotic monooxygenase; 1,4-cineole 2-exo-monooxygenase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 6 |
| **UniProt Protein Name** | Cytochrome P450 2A6 |
| **UniProt Gene Name** | **CYP2A6** |
| **UniProt Synonym Gene Names** | CYP2A3 |
| **UniProt Entry Name** | CP2A6_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-p450-2a6-cyp2a6/245242