

Mouse Cytochrome P450 4A11 (CYP4A11) ELISA Kit | CYP4A11 elisa kit

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CATALOG #
AAA27137

REACTIVITY
Mouse

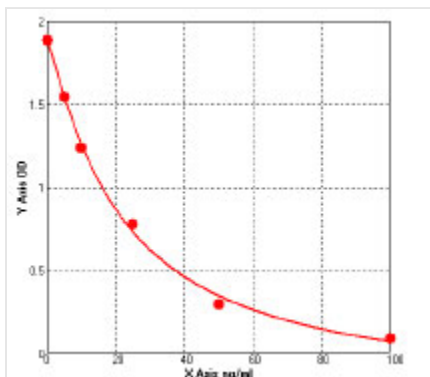
PRODUCT SYNONYMS

Cytochrome P450 4A11 (CYP4A11); Mouse Cytochrome P450 4A11 (CYP4A11) ELISA Kit; CYP4A11 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of CYP4A11. No significant cross-reactivity or interference between CYP4A11 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CYP4A11 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 CYP4A11 elisa kit	Intended Uses: This CYP4A11 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse CYP4A11. This ELISA kit for research use only! Principle of the Assay: CYP4A11 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CYP4A11 antibody and an CYP4A11-HRP conjugate. The assay sample and buffer are incubated together with CYP4A11-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 CYP4A11 concentration since CYP4A11 from samples and CYP4A11-HRP conjugate compete for the anti-CYP4A11 antibody binding site. Since the number of sites is limited, as more sites are occupied by CYP4A11 from the sample, fewer sites are left to bind CYP4A11-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CYP4A11 concentration in each sample is interpolated from this standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	158937242
NCBI GeneID	1579
NCBI Accession #	NP_000769.2
NCBI GenBank Nucleotide #	NM_000778.3
Molecular Weight	41,052 Da
NCBI Official Full Name	cytochrome P450 4A11
NCBI Official Synonym Full Names	cytochrome P450, family 4, subfamily A, polypeptide 11
NCBI Official Symbol	CYP4A11
NCBI Official Synonym Symbols	CP4Y; CYP4A2; CYP4AII
NCBI Protein Information	cytochrome P450 4A11; CYPIVA11; P450HL-omega; 20-HETE synthase; alkane-1 monooxygenase; cytochrome P450HL-omega; cytochrome P-450HK-omega; fatty acid omega-hydroxylase; lauric acid omega-hydroxylase; 20-hydroxyeicosatetraenoic acid synthase; cytochrome P450, subfamily IVA, polypeptide 11
UniProt Protein Name	Cytochrome P450 4A11
UniProt Gene Name	CYP4A11
UniProt Synonym Gene Names	CYP4A2; 20-HETE synthase
UniProt Entry Name	CP4AB_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/mouse-elisa-kits/cytochrome-p450-4a11-cyp4a11/27137>