

Mouse Cytochrome P450 1A2 ELISA Kit | CYP1A2(P450) elisa kit

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CATALOG #
AAA99464

REACTIVITY
Mouse

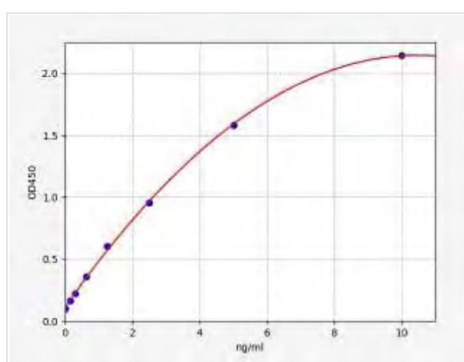
PRODUCT SYNONYMS

Cytochrome P450 1A2; Mouse Cytochrome P450 1A2 ELISA Kit; CYP1A2/P450/Cytochrome P450 1A2/Cytochrome P450-P3/Cytochrome P450 4/CYP1A2/Cytochrome P (3)450; CYP1A2(P450) elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Specifically recognize CYP1A2(P450), no obvious cross reaction with other analogues
Sequence Length	516
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
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



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CYP1A2(P450) elisa kit	Background: Cytochrome P450 1A2 (CYP1A2) is an enzyme located in the endoplasmic reticulum, involved in drug metabolism, hormone synthesis, and detoxification of toxic substances. CYP1A2 is widely expressed in the liver and plays a crucial role in the metabolism of various endogenous and exogenous compounds, including drugs, hormones, and carcinogens. Additionally, CYP1A2 participates in the metabolism of natural compounds such as caffeine and theobromine. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti CYP1A2(P450) antibody was pre-coated onto the 96-well plate. The biotin conjugated anti CYP1A2(P450) antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with CYP1A2(P450) conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of CYP1A2(P450) in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	73915100
NCBI GeneID	1544
NCBI Accession #	NP_000752.2
NCBI GenBank Nucleotide #	NM_000761.4
Molecular Weight	58,407 Da
NCBI Official Full Name	cytochrome P450 1A2
NCBI Official Synonym Full Names	cytochrome P450 family 1 subfamily A member 2
NCBI Official Symbol	CYP1A2
NCBI Official Synonym Symbols	CP12; P3-450; P450(PA)
NCBI Protein Information	cytochrome P450 1A2
UniProt Protein Name	Cytochrome P450 1A2
UniProt Gene Name	CYP1A2
UniProt Entry Name	CP1A2_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/cyp1a2p450-mouse-elisa-kits/cytochrome-p450-1a2/99464>