

Mouse Cyp1a1 (Cytochrome P450 1A1) ELISA Kit | Cyp1a1 elisa kit

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CATALOG #
AAA250192

REACTIVITY
Mouse

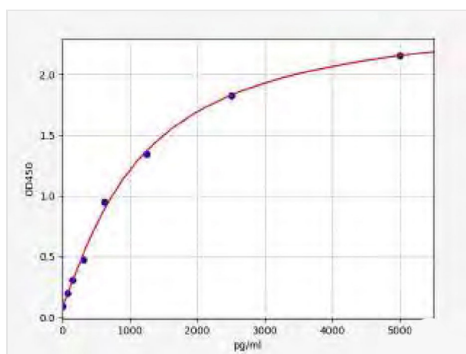
PRODUCT SYNONYMS

Cyp1a1 (Cytochrome P450 1A1); Mouse Cyp1a1 (Cytochrome P450 1A1) ELISA Kit; Cytochrome P450 1A1; CYPIA1; Cytochrome P450 form 6; Cytochrome P450-C; Cytochrome P450-P1; Hydroperoxy icosatetraenoate dehydratase; Cyp1a-1; Cyp1a1; Cyp1a1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Specifically recognize Cyp1a1, no obvious cross reaction with other analogues
Assay Type	Sandwich
Samples	Cell lysates, tissue homogenates and other biological samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/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 Cyp1a1 elisa kit	Background: Cytochrome P450 (CYP) 1A1 is an extrahepatic monooxygenase involved in the metabolism of endogenous substrates and drugs, as well as the activation of certain toxins and environmental pollutants. CYP1A1 is particularly well known for its ability to biotransform polycyclic aromatic hydrocarbons, such as benzo[a]pyrene in tobacco smoke, into carcinogens. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti Cyp1a1 antibody was pre-coated onto the 96-well plate. The biotin conjugated anti Cyp1a1 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 Cyp1a1 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 Cyp1a1 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 #	209862925
NCBI GeneID	13076
NCBI Accession #	NP_001129531.1
NCBI GenBank Nucleotide #	NM_001136059.2
UniProt Accession #	P00184; Q61455
Molecular Weight	59,230 Da
NCBI Official Full Name	cytochrome P450 1A1
NCBI Official Synonym Full Names	cytochrome P450, family 1, subfamily a, polypeptide 1
NCBI Official Symbol	Cyp1a1
NCBI Official Synonym Symbols	AHH; AHRR; CP11; Cyp1a2; P450-1
NCBI Protein Information	cytochrome P450 1A1
UniProt Protein Name	Cytochrome P450 1A1
UniProt Gene Name	Cyp1a1
UniProt Synonym Gene Names	Cyp1a-1
UniProt Entry Name	CP1A1_MOUSE

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.