

Human Cytochrome P450, family 1, subfamily B, polypeptide 1 ELISA Kit | CYP1B1 elisa kit

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CATALOG #
AAA98649

REACTIVITY
Human

PRODUCT SYNONYMS

Cytochrome P450; family 1; subfamily B; polypeptide 1; Human Cytochrome P450; polypeptide 1 ELISA Kit; CYP1B1/Cytochrome P450 1B1/CP1B/CYP1B1/GLC3A/P4501B1; CYP1B1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of CYP1B1 . No significant cross-reactivity or interference between CYP1B1 and analogues was observed.
Sequence Length	543
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CYP1B1 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CYP1B1 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
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

Typical Data & Standard Curve

Results of a typical standard run of a CYP1B1 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A/not applicable)

X	ng/ml	0	0.156	0.312	0.625	1.25	2.5	5	10
Y	OD450	0.055	0.123	0.169	0.26	0.494	0.824	1.489	2.345

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CYP1B1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-CYP1B1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- CYP1B1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the CYP1B1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of CYP1B1 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	54696820
NCBI GeneID	1545
Molecular Weight	60,846 Da
NCBI Official Full Name	cytochrome P450, family 1, subfamily B, polypeptide 1
NCBI Official Synonym Full Names	cytochrome P450 family 1 subfamily B member 1
NCBI Official Symbol	CYP1B1
NCBI Official Synonym Symbols	CP1B; GLC3A; CYP1B1; P4501B1
NCBI Protein Information	cytochrome P450 1B1
UniProt Protein Name	Cytochrome P450 1B1
UniProt Gene Name	CYP1B1
UniProt Entry Name	CP1B1_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/cyp1b1-human-elisa-kits/cytochrome-p450-family-1-subfamily-b-polypeptide-1/98649>