

## Human CYP1B1 protein, His tag

## Cat. No. GTX00418-pro

Applications	Functional Assay	Package
Species	Human	10 µg

## Applications

## Application Note

Cytochrome P450 family 1 subfamily B member 1 (CYP1B1) is an enzyme, which belongs to the cytochrome P450 superfamily. CYP1B1 can catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids, and other lipids. Besides, Heat Shock Protein family B (small) member 2 (HSPb2) has been identified as an interactor of CYP1B1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human CYP1B1 and recombinant human HSPb2. CYP1B1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to HSPb2-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-CYP1B1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of CYP1B1 and HSPb2 was in a dose dependent manner.

Observed MW (kDa) 18/16 kDa.

## Properties

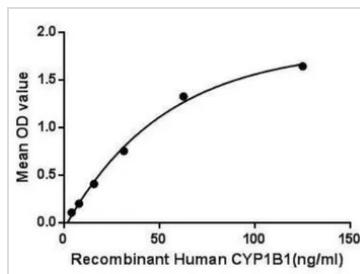
Form	Lyophilized powder
Buffer	Reconstitute with 20mM Tris (pH8.0) and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris (pH8.0), 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.
Preservative	ProClin 300
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
Region/Sequence	N-terminal His-Tag; Asp374~Phe516 (NP_000095.2)
Expression System	E. coli
Purity	> 97%
Endotoxin	< 1 EU/µg
Conjugation	Unconjugated
Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



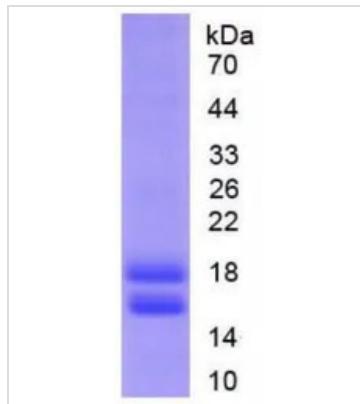
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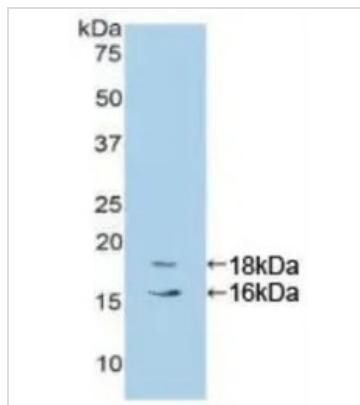
## DATA IMAGES

**GTx00418-pro Functional Assay Image**

Functional ELISA analysis of GTx00418-pro Human CYP1B1 protein which can bind immobilized HSPb2 protein.

**GTx00418-pro Image**

SDS-PAGE analysis of GTx00418-pro Human CYP1B1 protein.

**GTx00418-pro Image**

WB analysis of GTx00418-pro Human CYP1B1 protein.



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