

RPB053Ra01 200µg

**Recombinant Cytochrome P450 7A1 (CYP7A1)** 

Organism Species: Rattus norvegicus (Rat)

Instruction manual

FOR RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)



# [PROPERTIES]

Source: Prokaryotic expression

Host: E.coli

Residues: Phe109~Lys383

Tags: N-terminal His Tag

Subcellular Location: Membrane, Endoplasmic reticulum lumen

**Purity:** > 97%

Traits: Freeze-dried powder

Buffer formulation: 100mMNaHCO<sub>3</sub>, 500mMNaCl, pH8.3, containing 0.01% SKL, 5%

Trehalose.

Original Concentration: 200µg/mL

Applications: Positive Control; Immunogen; SDS-PAGE; WB.

(May be suitable for use in other assays to be determined by the end user.)

Predicted isoelectric point: 6.9

Predicted Molecular Mass: 34.4kDa

Accurate Molecular Mass: 38kDa as determined by SDS-PAGE reducing conditions.

#### Phenomenon explanation:

The possible reasons that the actual band size differs from the predicted are as follows:

- 1. Splice variants: Alternative splicing may create different sized proteins from the same gene.
- 2. Relative charge: The composition of amino acids may affects the charge of the protein.
- 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.
- 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.
- 5. Polymerization of the target protein: Dimerization, multimerization etc.

#### [USAGE]

Reconstitute in ddH<sub>2</sub>O to a concentration of 0.1-1.0 mg/mL. Do not vortex.

#### [STORAGE AND STABILITY]



Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

**Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

## [SEQUENCE]

```
FG HRSIDPNDGN TTENINNTFT KTLQGDALCS LSEAMMQNLQ
SVMRPPGLPK SKSNAWVTEG MYAFCYRVMF EAGYLTLFGR DISKTDTQKA
LILNNLDNFK QFDQVFPALV AGLPIHLFKT AHKAREKLAE GLKHKNLCVR
DQVSELIRLR MFLNDTLSTF DDMEKAKTHL AILWASQANT IPATFWSLFQ
MIRSPEAMKA ASEEVSGALQ SAGQELSSGG SAIYLDQVQL NDLPVLDSII
KEALRLSSAS LNIRTAKEDF TLHLEDGSYN IRK
```

#### [ IDENTIFICATION ]

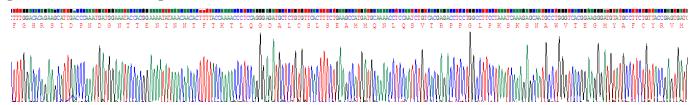


Figure. Gene Sequencing (Extract)

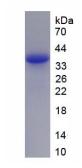


Figure. SDS-PAGE

## [ IMPORTANT NOTE ]



The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.