

# Rabbit Anti-CYP3A7 antibody

## SL14155R

| Product Name:          | CYP3A7   |
|------------------------|--|
| Chinese Name:          | 细 <b>胞色素P450 A7抗体</b>  |
| Alias:                 | aryl hydrocarbon hydroxylase; CP37; CP3A7_HUMAN; CYP3A7; CYPIIIA7; Cytochrome P450 3A7; cytochrome P450, family 3, subfamily A, polypeptide 7; cytochrome P450, subfamily IIIA, polypeptide 7; Cytochrome P450-HFLA; flavoprotein linked monooxygenase; microsomal monooxygenase; P450 HFLA; xenobiotic monooxygenase.         |
| Organism Species:      | Rabbit   |
| Clonality:             | Polyclonal   |
| React Species:         | Human,   |
| Applications:          | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.   |
| Molecular weight:      | 57kDa  |
| Cellular localization: | cytoplasmic  |
| Form:                  | Lyophilized or Liquid  |
| Concentration:         | lmg/ml   |
| immunogen:             | KLH conjugated synthetic peptide derived from human CYP3A7:201-300/503   |
| Lsotype:               | IgG  |
| Purification:          | affinity purified by Protein A   |
| Storage Buffer:        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.   |
| Storage:               | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20 °C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| PubMed:                | <u>PubMed</u>  |
| Product Detail:        | This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This  |

enzyme hydroxylates testosterone and dehydroepiandrosterone 3-sulphate, which is involved in the formation of estriol during pregnancy. The enzyme also metabolizes some drugs such as aflatoxin B1. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Transcript variants have been described, but it is not known whether these transcripts are normally produced. This gene undergoes readthrough transcription with the downstream CYP3AP1 pseudogene, resulting in an isoform with a novel C-terminus, as represented in GeneID:100861540. [provided by RefSeq, Feb 2012]

## **Function:**

Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics.

#### **Subcellular Location:**

Endoplasmic reticulum membrane. Microsome membrane.

## Similarity:

Belongs to the cytochrome P450 family.

## **SWISS:**

P24462

### Gene ID:

1551

## Database links:

Entrez Gene: 1551 Human

Omim: 605340 Human

SwissProt: P24462 Human

Unigene: 111944 Human

## **Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.