

CYP3A7 Polyclonal Antibody

Catalog No :	YT1231
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	CYP3A7
Fields :	>>Steroid hormone biosynthesis;>>Retinol metabolism;>>Metabolic pathways;>>Chemical carcinogenesis - DNA adducts
Gene Name :	CYP3A7
Protein Name :	Cytochrome P450 3A7
Human Gene Id :	1551
Human Swiss Prot No :	P24462
Immunogen :	The antiserum was produced against synthesized peptide derived from human Cytochrome P450 3A7. AA range:231-280
Specificity :	CYP3A7 Polyclonal Antibody detects endogenous levels of CYP3A7 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	50kD

Cell Pathway :

Steroid hormone biosynthesis;Linoleic acid metabolism;Retinol metabolism;Metabolism of xenobiotics by cytochrome P450;Drug metabolism;Drug metabolism;

Background :

This gene encodes a member of the cytochrome P450 superfamily of enzymes, which participate in drug metabolism and the 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. This gene is part of a cluster of related genes on chromosome 7q21.1. Naturally-occurring readthrough transcription occurs between this gene and the downstream CYP3A51P pseudogene and is represented by GenID:100861540. [provided by RefSeq, Jan 2015],

Function :

catalytic activity:RH + reduced flavoprotein + O(2) = ROH + oxidized flavoprotein + H(2)O.,cofactor:Heme group.,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.,induction:P450 can be induced to high levels in liver and other tissues by various foreign compounds, including drugs, pesticides, and carcinogens.,online information:CYP3A7 alleles,similarity:Belongs to the cytochrome P450 family.,

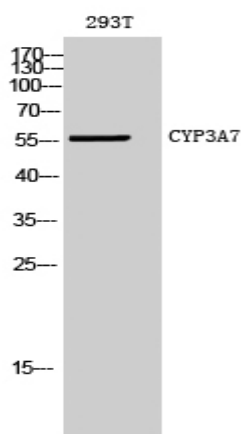
Subcellular Location :

Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane ; Peripheral membrane protein.

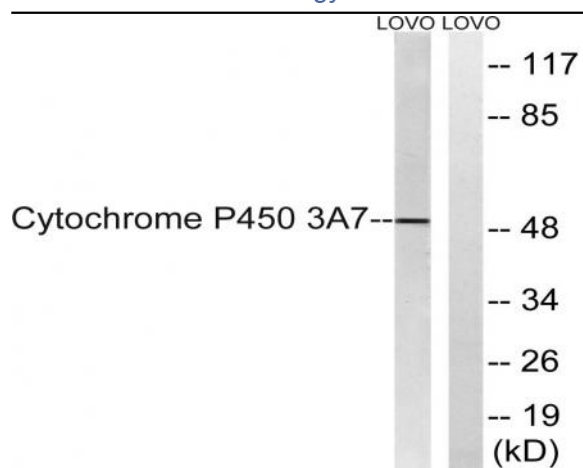
Expression :

Expressed in fetal liver (at protein level).

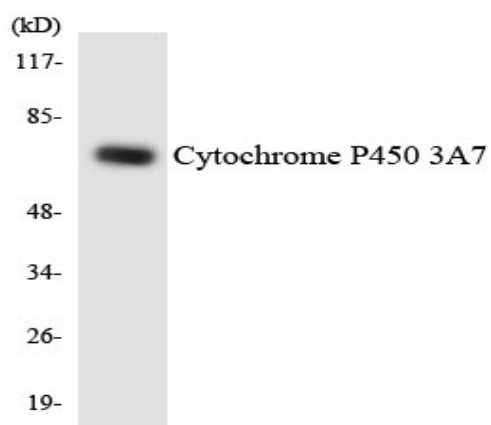
Products Images



Western Blot analysis of 293T cells using CYP3A7 Polyclonal Antibody diluted at 1:500



Western blot analysis of lysates from LOVO cells, using Cytochrome P450 3A7 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from K562 cells using Cytochrome P450 3A7 antibody.