Product Name: CYP4A11/22 Rabbit Polyclonal Antibody
Catalog #: APRab09669
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:20000-1:40000
Molecular Weight	60kDa

Antigen Information

Gene Name	CYP4A11/CYP4A22
Alternative Names	CYP4A11; CYP4A2; Cytochrome P450 4A11; 20-hydroxyeicosatetraenoic acid synthase; 20-HETE synthase; CYP4AII; CYPIVA11; Cytochrome P-450HK-omega; Cytochrome P450HL-omega; Fatty acid omega-hydroxylase; Lauric acid omega-hydroxylase; CYP4A22; C
Gene ID	1579/284541
SwissProt ID	Q02928/Q5TCH4
Immunogen	The antiserum was produced against synthesized peptide derived from human Cytochrome P450 4A11/22. AA range:391-440

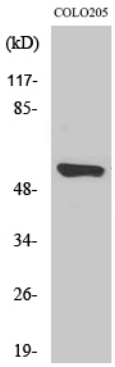
Background

cytochrome P450 family 4 subfamily A member 11(CYP4A11) Homo sapiens 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 protein localizes to the endoplasmic reticulum and hydroxylates medium-chain fatty acids such as laurate and myristate. Multiple transcript variants have been found for this gene. [provided by RefSeq, Jan 2016],catalytic activity:Octane + reduced rubredoxin + O(2) = 1-octanol + oxidized rubredoxin + H(2)O.,cofactor:Heme group.,function:Catalyzes the omega- and (omega-1)-hydroxylation of various fatty acids such as laurate, myristate and palmitate. Has little activity toward prostaglandins A1 and E1. Oxidizes arachidonic acid to 20-hydroxyeicosatetraenoic acid (20-HETE).,online information:CYP4A11 alleles,polymorphism:CYP4A11v seems to be a rare allelic variant of CYP4A11, it seems to be unstable and not to metabolize lauric acid.,similarity:Belongs to the cytochrome P450 family.,tissue specificity:Kidney and liver.,

Research Area

Fatty acid metabolism;Arachidonic acid metabolism;Retinol metabolism;PPAR;Vascular smooth muscle contraction;

Image Data



Western Blot analysis of various cells using CYP4A11/22 Polyclonal Antibody