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CYP4A22 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58268

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q5TCH4
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59246
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CYP4A22
Epitope Specificity	51-150/519
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane; Peripheral membrane protein (By similarity). Microsome membrane; Peripheral membrane protein
SIMILARITY	Belongs to the cytochrome P450 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Cytochrome P450 4A22 (CYP4A22) is 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 gene is part of a cluster of cytochrome P450 genes on chromosome 1p33.

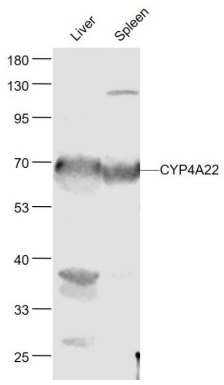
Additional Information

Gene ID	284541
Other Names	Cytochrome P450 4A22, CYPIVA22, Fatty acid omega-hydroxylase, Lauric acid omega-hydroxylase, Long-chain fatty acid omega-monooxygenase, 1.14.14.80, CYP4A22
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	CYP4A22
Function	Catalyzes the omega- and (omega-1)-hydroxylation of various fatty acids such as laurate and palmitate. Shows no activity towards arachidonic acid and prostaglandin A1. Lacks functional activity in the kidney and does not contribute to renal 20-hydroxyeicosatetraenoic acid (20-HETE) biosynthesis.
Cellular Location	Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

Images



Sample:
Liver (Mouse) Lysate at 40 ug
Spleen (Mouse) Lysate at 40 ug
Primary: Anti-CYP4A22 (AP58268) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 58 kD
Observed band size: 58 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.