10320 Camino Santa Fe, Suite G
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CYP4A22 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58268

Specification

CYP4A22 Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, E**
Primary Accession	Q5TCH4
Reactivity	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**58 KDa**
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.

CYP4A22 Polyclonal Antibody - 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~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

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Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ 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 ℃.

CYP4A22 Polyclonal Antibody - 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.

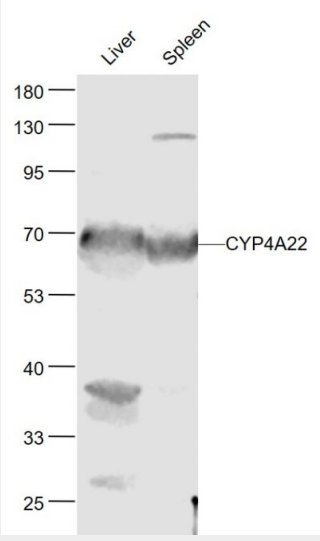
Cellular Location
Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

CYP4A22 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CYP4A22 Polyclonal Antibody - Images



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Sample:
Liver (Mouse) Lysate at 40 ug
Spleen (Mouse) Lysate at 40 ug
Primary: Anti-CYP4A22 (bs-5055R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 58 kD
Observed band size: 58 kD