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Cytochrome P450 39A1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50820

Product Information

Application	WB
Primary Accession	Q9NYL5
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Calculated MW	54116

Additional Information

Gene ID	51302
Other Names	24-hydroxycholesterol 7-alpha-hydroxylase, Cytochrome P450 39A1, hCYP39A1, Oxysterol 7-alpha-hydroxylase, CYP39A1
Dilution	WB~~ 1:1000
Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20℃

Protein Information

Name	CYP39A1 {ECO:0000303|PubMed:25201972, ECO:0000312|HGNC:HGNC:17449}
Function	A cytochrome P450 monooxygenase involved in neural cholesterol clearance through bile acid synthesis (PubMed:10748047, PubMed:25201972). Catalyzes 7-alpha hydroxylation of (24S)- hydroxycholesterol, a neural oxysterol that is metabolized to bile acids in the liver (PubMed:10748047, PubMed:25201972). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase) (PubMed:10748047, PubMed:25201972).
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q64654}; Multi-pass membrane protein. Microsome membrane {ECO:0000250|UniProtKB:Q64654}; Multi-pass membrane protein
Tissue Location	Liver specific..

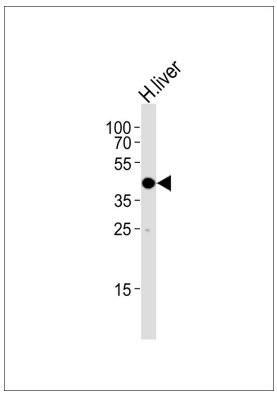
Background

Involved in the bile acid metabolism. Has a preference for 24-hydroxycholesterol, and converts it into a 7-alpha- hydroxylated product.

References

Li-Hawkins J.,et al.J. Biol. Chem. 275:16543-16549(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mungall A.J.,et al.Nature 425:805-811(2003).

Images



Western blot analysis of lysate from human liver tissue lysate,using Cytochrome P450 39A1 Antibody,was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug.

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