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Cyp4b1 Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI11943

Product Information

Application	WB
Primary Accession	Q64462
Other Accession	NM_007823, NP_031849
Reactivity	Human, Mouse, Rat, Rabbit, Goat, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Pig, Goat, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58900

Additional Information

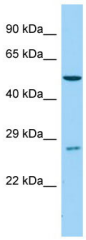
Gene ID	13120
Other Names	Cytochrome P450 4B1, 1.14.14.1, CYPIVB1, Cyp4b1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Cyp4b1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Cyp4b1 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Cyp4b1 {ECO:0000303|PubMed:7639529, ECO:0000312|MGI:MGI:103225}
Function	Catalyzes the omega- and (omega-1)-hydroxylation of saturated fatty acids and n-alkanes (PubMed:7639529). Also bioactivates xenobiotics such as the procarcinogen 3-methoxy-4-aminoazobenzene and the cyclic arylamines 2-aminofluorene and 2-aminoanthracene (PubMed:7639529). In addition, catalyzes O-dealkylation of 7- ethoxycoumarin (By similarity). Functions at the interface of xenobiotic and endobiotic metabolism, contributing both to fatty acid and hydrocarbon oxidation and to the bioactivation of diverse xenobiotics (PubMed:7639529). Preferentially hydroxylates the terminal carbon (omega-hydroxylation) of medium-chain fatty acids (C8-C10), with regioselectivity decreasing as chain length increases. C8 fatty acids and C7 n-alkanes display optimal chain length for regioselective omega-hydroxylation, and n-alkanes (C7-C10) are generally turned over faster and

	with higher regioselectivity than the corresponding fatty acids. In addition to omega/omega-1 hydroxylation, also catalyzes alpha-, beta-, gamma- and delta-hydroxylation of mid-chain length fatty acids, whereas fatty alcohols of the same chain length are almost exclusively hydroxylated at the omega, omega-1 and omega-2 positions (By similarity).
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P15128}; Peripheral membrane protein {ECO:0000250|UniProtKB:P15128}. Microsome membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:P15128}
Tissue Location	Present abundantly in renal microsomes of male mice but not in those of female mice. Also present in pulmonary microsomes of male and female mice. Not found in liver

Images



Host: Rabbit
Target Name: Cyp4b1
Sample Tissue: Mouse Testis lysates
Antibody Dilution: 1.0µg/ml

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