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Cytochrome P450 2C11 Rabbit pAb

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Catalog # AP55450

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P08683
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57181
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from rat Cytochrome P450 2C11
Epitope Specificity	21-120/500
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. Microsome membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	most abundant member of the p450 xenobiotic-inducible superfamily in non-stimulated liver; metabolizes xenobiotics and testosterone [RGD, Feb 2006]

Additional Information

Gene ID	29277
Other Names	Cytochrome P450 2C11, 1.14.14.1, CYPIIC11, Cytochrome P-450(M-1), Cytochrome P450-UT-2, Cytochrome P450-UT-A, Cytochrome P450H, Cyp2c11, Cyp2c, Cyp2c-11
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	Cyp2c11
Synonyms	Cyp2c, Cyp2c-11

Function	A cytochrome P450 monooxygenase involved in the metabolism of steroid hormones and fatty acids. Catalyzes the hydroxylation of carbon-hydrogen bonds. Metabolizes testosterone to 2alpha- and 16alpha-hydroxytestosterone (PubMed:2434473). Catalyzes the epoxidation of double bonds of polyunsaturated fatty acids (PUFAs) (PubMed:10491410, PubMed:15766564). Converts arachidonic acid (ARA, C20:4(n-6)) primarily to epoxyeicosatrienoic acid (EET) regioisomers, 8,9-, 11,12-, and 14,15-EET, with both R,S and S,R stereochemistry (PubMed:10491410). Preferentially produces 11R,12S-EET enantiomer. To a lesser extent, catalyzes the hydroxylation of arachidonic acid producing hydroxyeicosatetraenoates (HETEs) (PubMed:10491410). Metabolizes eicosapentaenoic acid (EPA, C20:5(n-3)) to epoxyeicosatetraenoic acid (EETeTr) regioisomers, 8,9-, 11,12-, 14,15-, and 17,18-EETeTr, preferentially producing 17R,18S-EETeTr enantiomer (PubMed:15766564). 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 (NADPH-- hemoprotein reductase) (PubMed:15766564, PubMed:2434473).
Cellular Location	Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein
Tissue Location	Liver and kidney; male-specific.

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