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Goat Anti-Cyp2r1 (mouse aa405-418)) Antibody

Peptide-affinity purified goat antibody
Catalog # AF4324a

Product Information

Application	WB, E
Primary Accession	Q6VVX0
Other Accession	NP_796356.2
Reactivity	Mouse, Rat
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Calculated MW	57359

Additional Information

Gene ID	120227
Other Names	Vitamin D 25-hydroxylase, 1.14.14.24, Cytochrome P450 2R1, CYP2R1
Dilution	WB~~1:1000 E~~N/A
Format	0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Immunogen	Peptide with sequence C-YSVHFDEKYWKDPD, from the internal region of the protein sequence according to NP_796356.2.
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Goat Anti-Cyp2r1 (mouse aa405-418)) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

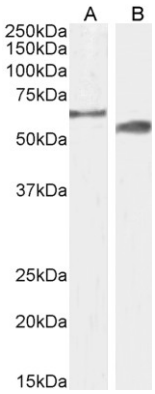
Protein Information

Name	CYP2R1
Function	A cytochrome P450 monooxygenase involved in activation of vitamin D precursors. Catalyzes hydroxylation at C-25 of both forms of vitamin D, vitamin D(2) and D(3) (calciol) (PubMed:12867411, PubMed:15465040, PubMed:18511070). Can metabolize vitamin D analogs/prodrugs 1alpha-hydroxyvitamin D(2) (doxercalciferol) and 1alpha-hydroxyvitamin D(3) (alfacalcidol) forming 25-hydroxy derivatives (PubMed:15465040,

PubMed:18511070). 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:12867411, PubMed:15465040, PubMed:18511070).

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

Images



AF4324a (2 µg/ml) staining of Mouse (A) and Rat (B) Testes lysate (35 µg protein in RIPA buffer). Detected by chemiluminescence.

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