

Goat Anti-Cyp2r1 (mouse aa405-418)) Antibody
Peptide-affinity purified goat antibody
Catalog # AF4324a

Specification

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

Application	WB
Primary Accession	O6VVX0
Other Accession	NP_796356.2
Reactivity	Mouse, Rat
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	57359

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

Gene ID 120227

Other Names

Vitamin D 25-hydroxylase, 1.14.14.24, Cytochrome P450 2R1, CYP2R1

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.

Goat Anti-Cyp2r1 (mouse aa405-418)) Antibody - 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) (calcitriol) (PubMed:12867411, PubMed:12867411).

href="http://www.uniprot.org/citations/15465040" target="_blank">15465040, PubMed:18511070). Can metabolize vitamin D analogs/prodrugs 1 α -hydroxyvitamin D(2) (doxercalciferol) and 1 α -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

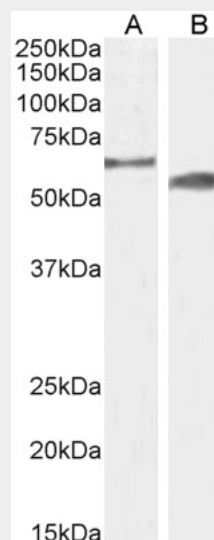
Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

Goat Anti-Cyp2r1 (mouse aa405-418)) 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 Cytometry](#)
- [Cell Culture](#)

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



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