

**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	<a href="#">Q6VVX0</a>
Other Accession	<a href="#">NP_796356.2</a>
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:<a href="http://www.uniprot.org/citations/12867411" target="\_blank">12867411</a>, PubMed:<a href="http://www.uniprot.org/citations/12867411" target="\_blank">12867411</a>).

href="http://www.uniprot.org/citations/15465040" target="\_blank">15465040</a>, PubMed:<a href="http://www.uniprot.org/citations/18511070" target="\_blank">18511070</a>). Can metabolize vitamin D analogs/prodrugs 1 $\alpha$ -hydroxyvitamin D(2) (doxercalciferol) and 1 $\alpha$ -hydroxyvitamin D(3) (alfacalcidol) forming 25-hydroxy derivatives (PubMed:<a href="http://www.uniprot.org/citations/15465040" target="\_blank">15465040</a>, PubMed:<a href="http://www.uniprot.org/citations/18511070" target="\_blank">18511070</a>). 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:<a href="http://www.uniprot.org/citations/12867411" target="\_blank">12867411</a>, PubMed:<a href="http://www.uniprot.org/citations/15465040" target="\_blank">15465040</a>, PubMed:<a href="http://www.uniprot.org/citations/18511070" target="\_blank">18511070</a>).

#### Cellular Location

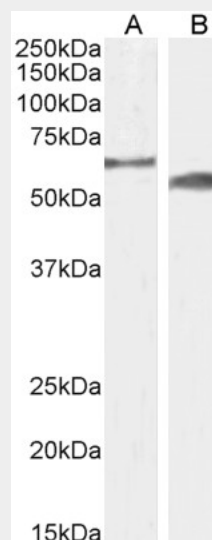
Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

#### 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  $\mu$ g/ml) staining of Mouse (A) and Rat (B) Testes lysate (35  $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.