

CYP2R1 Polyclonal Antibody
Catalog # AP69405**Specification****CYP2R1 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	Q6VVX0
Reactivity	Human, Mouse, Monkey
Host	Rabbit
Clonality	Polyclonal

CYP2R1 Polyclonal Antibody - Additional Information

Gene ID 120227

Other Names

CYP2R1; Vitamin D 25-hydroxylase; Cytochrome P450 2R1

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

CYP2R1 Polyclonal 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](http://www.uniprot.org/citations/12867411)), PubMed:[15465040](http://www.uniprot.org/citations/15465040)), PubMed:[18511070](http://www.uniprot.org/citations/18511070)). Can metabolize vitamin D analogs/prodrugs 1alpha-hydroxyvitamin D(2) (doxercalciferol) and 1alpha-hydroxyvitamin D(3) (alfacalcidol) forming 25-hydroxy derivatives (PubMed:[15465040](http://www.uniprot.org/citations/15465040)), PubMed:[18511070](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/12867411)), PubMed:[15465040](http://www.uniprot.org/citations/15465040)), PubMed:[18511070](http://www.uniprot.org/citations/18511070)).

Cellular Location

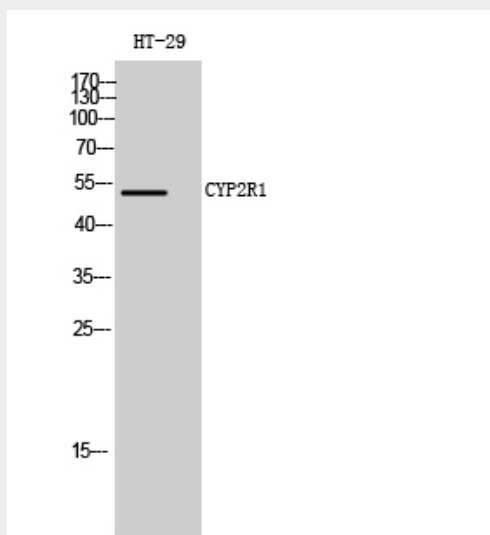
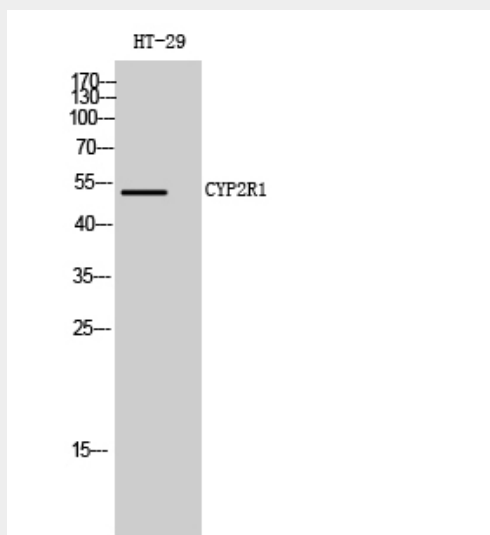
Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

CYP2R1 Polyclonal 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](#)

CYP2R1 Polyclonal Antibody - Images



CYP2R1 Polyclonal Antibody - Background

Has a D-25-hydroxylase activity on both forms of vitamin D, vitamin D(2) and D(3).