



# CYP2R1 Monoclonal Antibody

Catalog No	BYmab-02589
Isotype	IgG
Reactivity	Human;Mouse;Monkey
Applications	WB
Gene Name	CYP2R1
Protein Name	Vitamin D 25-hydroxylase
Immunogen	The antiserum was produced against synthesized peptide derived from human CYP2R1. AA range:251-300
Specificity	CYP2R1 Monoclonal Antibody detects endogenous levels of CYP2R1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CYP2R1; Vitamin D 25-hydroxylase; Cytochrome P450 2R1
Observed Band	52kD
Cell Pathway	Endoplasmic reticulum membrane ; Peripheral membrane protein. Microsome membrane ; Peripheral membrane protein.
Tissue Specificity	Liver,
Function	catalytic activity:5-beta-cholestane-3-alpha,7-alpha,12-alpha-triol + NADPH + O(2) = (25R)-5-beta-cholestane-3-alpha,7-alpha,12-alpha,26-tetraol + NADP(+) + H(2)O.,cofactor:Heme group.,disease:Defects in CYP2R1 are a cause of 25-hydroxyvitamin D(3) deficiency (25HOD3D)[MIM:600081]; also known as pseudovitamin D(3) deficiency rickets due to 25-hydroxylase deficiency. First described in patients who had rickets at a young age despite a history of adequate vitamin D intake. The patients sera had low calcium concentrations, low phosphate concentrations, elevated alkaline phosphatase activity, and low levels of 25-hydroxyvitamin D.,function:Has a D-25-hydroxylase activity on both forms of vitamin D, vitamin D(2) and D(3).,similarity:Belongs to the cytochrome P450 family.,subunit:Homodimer.,

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## Background

This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This enzyme is a microsomal vitamin D hydroxylase that converts vitamin D into the active ligand for the vitamin D receptor. A mutation in this gene has been associated with selective 25-hydroxyvitamin D deficiency. [provided by RefSeq, Jul 2008],

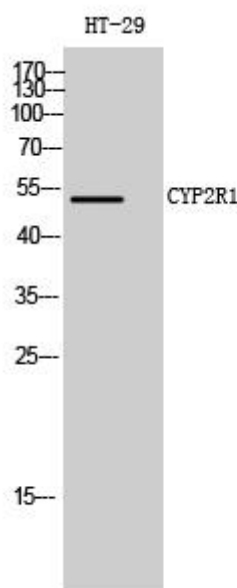
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using CYP2R1 Monoclonal Antibody