

CYP2R1 Polyclonal Antibody

YT1222 Catalog No:

Reactivity: Human; Mouse; Monkey

Applications: WB;IHC;IF;ELISA

CYP2R1 **Target:**

Fields: >>Steroid biosynthesis;>>Metabolic pathways

Gene Name: CYP2R1

Protein Name: Vitamin D 25-hydroxylase

Human Gene Id: 120227

Human Swiss Prot

No:

Mouse Gene Id: 244209

Mouse Swiss Prot

Q6VVW9 No:

Q6VVX0

The antiserum was produced against synthesized peptide derived from human Immunogen:

CYP2R1. AA range:251-300

Specificity: CYP2R1 Polyclonal Antibody detects endogenous levels of CYP2R1 protein.

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Formulation:

Source: Polyclonal, Rabbit, IgG

WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200 **Dilution:**

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

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Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 52kD

Location:

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],

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.,

Subcellular Endoplasmic reticulum membrane ; Peripheral membrane protein. Microsome

membrane; Peripheral membrane protein.

Expression : Liver,

Sort : 4803

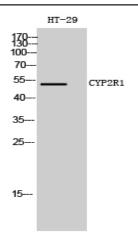
No4: 1

Host: Rabbit

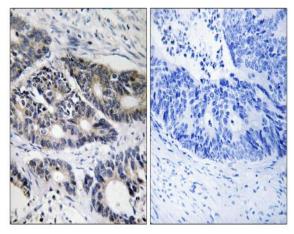
Modifications: Unmodified

Products Images

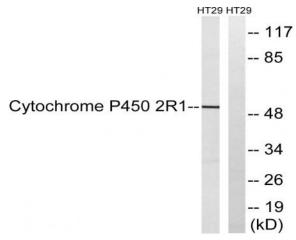
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Western Blot analysis of HT-29 cells using CYP2R1 Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using Cytochrome P450 2R1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HT29 cells, using Cytochrome P450 2R1 Antibody. The lane on the right is blocked with the synthesized peptide.



