

CYP2R1 Polyclonal Antibody

Catalog No :	YT1222
Reactivity :	Human;Mouse;Monkey
Applications :	WB;IHC;IF;ELISA
Target :	CYP2R1
Fields :	>>Steroid biosynthesis;>>Metabolic pathways
Gene Name :	CYP2R1
Protein Name :	Vitamin D 25-hydroxylase
Human Gene Id :	120227
Human Swiss Prot No :	Q6VVX0
Mouse Gene Id :	244209
Mouse Swiss Prot No :	Q6VWV9
Immunogen :	The antiserum was produced against synthesized peptide derived from human CYP2R1. AA range:251-300
Specificity :	CYP2R1 Polyclonal Antibody detects endogenous levels of CYP2R1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

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

Observed Band : 52kD

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

Expression : Liver,

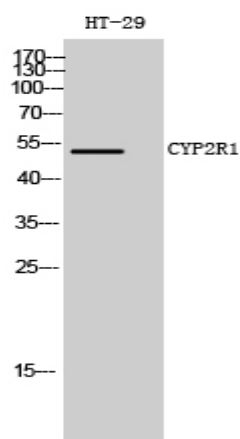
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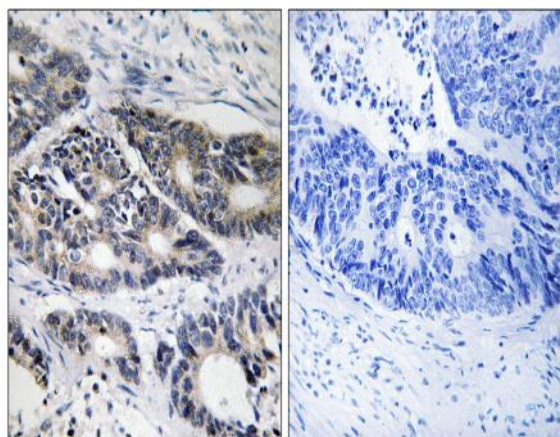
Host : Rabbit

Modifications : Unmodified

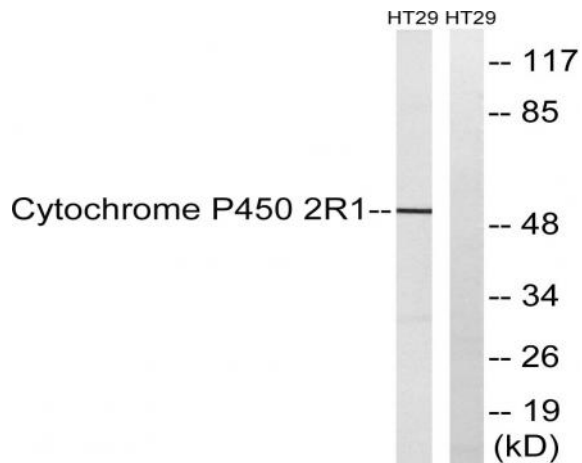
Products Images



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.

(kD)

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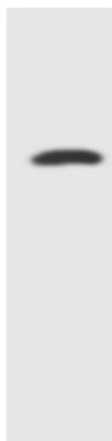
85-

48-

34-

26-

19-

**Cytochrome P450 2R1**

Western blot analysis of the lysates from HT-29 cells using Cytochrome P450 2R1 antibody.