

CYP27B1 Rabbit pAb

Catalog No.: A1716 **1 Publications**

Basic Information

Observed MW

63kDa

Calculated MW

57kDa

Category

Primary antibody

Applications

ELISA, WB

Cross-Reactivity

Human, Rat

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. The protein encoded by this gene localizes to the inner mitochondrial membrane where it hydroxylates 25-hydroxyvitamin D3 at the 1alpha position. This reaction synthesizes 1alpha,25-dihydroxyvitamin D3, the active form of vitamin D3, which binds to the vitamin D receptor and regulates calcium metabolism. Thus this enzyme regulates the level of biologically active vitamin D and plays an important role in calcium homeostasis. Mutations in this gene can result in vitamin D-dependent rickets type I.

Recommended Dilutions

WB 1:500 - 1:2000

Immunogen Information

Gene ID

1594

Swiss Prot

O15528

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 25-195 of human CYP27B1 (NP_000776.1).

Synonyms

VDR; CP2B; CYP1; PDDR; VDD1; VDDR; VDDRI; CYP27B; P450c1; CYP1alpha; CYP27B1

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

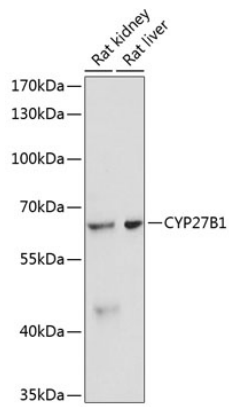
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of various lysates using CYP27B1 Rabbit pAb (A1716) at 1:3000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.