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Datasheet for ABIN6942771
anti-CYP27B1 antibody (AA 1-100)

Overview

Quantity:	100 µL
Target:	CYP27B1
Binding Specificity:	AA 1-100
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYP27B1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CYP27B1
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Dog,Cow,Sheep,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	CYP27B1
Alternative Name:	CYP27B1 (CYP27B1 Products)
Background:	Synonyms: 1alpha(OH)ase, 25-hydroxyvitamin D(3) 1-alpha-hydroxylase, 25-hydroxyvitamin D-1

Target Details

alpha hydroxylase, 25-OHD-1 alpha-hydroxylase, Calcidiol 1-monooxygenase, CP27B_HUMAN, CP2B, CYP1, CYP1ALPHA, CYP27B, Cyp27b1, Cytochrome p450 27B1, Cytochrome p450 27B13, Cytochrome P450 family 27 subfamily B polypeptide 1, Cytochrome P450 subfamily XXVIIB (25-hydroxyvitamin D-1-alpha-hydroxylase) polypeptide 1, Cytochrome P450 subfamily XXVIIB polypeptide 1, Cytochrome P450C1 alpha, Cytochrome P450VD1-alpha, mitochondrial, P450C1 alpha, P450c1, P450C1-alpha, P450VD1-alpha, PDDR, VD3 1A hydroxylase, VDD1, VDDR, VDDR I, VDDRI, VDR.

Background: The cytochrome P450 proteins are monooxygenases that catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. P450 enzymes are classified into subfamilies based on their sequence similarities. CYP27B1, a 508-amino acid protein that belongs to the XXVIIB subfamily of the cytochrome P450 family, localizes to the mitochondrion and is expressed in the kidney. The CYP27B1 protein catalyzes the conversion of 25-hydroxyvitamin D3 (25(OH)D) to 1-alpha,25-dihydroxyvitamin D3 (1,25(OH)2D) and functions in calcium metabolism, normal bone growth, and tissue differentiation. Mutations in the gene which encodes for CYP27B1 cause vitamin D-dependent rickets type 1 (VDDR-1), also designated pseudovitamin D deficiency rickets (PDDR), an autosomal recessive disease characterized by early onset of rickets with hypocalcemia and muscle weakness.

Gene ID: 1594

UniProt: [O15528](#)

Pathways: [Metabolism of Steroid Hormones and Vitamin D](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
IHC-P 1:200-400

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months