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# anti-CYP27B1 antibody (C-Term)





**Publications** 



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Overview		
Quantity:	200 μL	
Target:	CYP27B1	
Binding Specificity:	AA 482-508, C-Term	
Reactivity:	Human, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This CYP27B1 antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)	
Product Details		
Immunogen:	This CYP27B1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 482-508 amino acids from the C-terminal region of human CYP27B1.	
Clone:	RB16978	
Isotype:	lg Fraction	
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.	
Target Details		
Target:	CYP27B1	
Alternative Name:	CYP27B1 (CYP27B1 Products)	

## **Target Details**

Background:
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CYP27B1 is 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.

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Molecular Weight:	56504			
Gene ID:	1594			
NCBI Accession:	NP_000776			
UniProt:	015528			

Pathways:

Metabolism of Steroid Hormones and Vitamin D

# **Application Details**

Application Notes.	Application Notes:	WB: 1:500. WB: 1:2000	. IHC-P: 1:10~50. FC: 1:25
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Restrictions: For Research Use only

## Handling

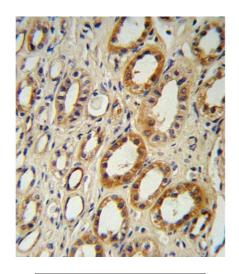
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze-thaw cycles.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots.
Expiry Date:	6 months

Product cited in:

Zhang, Liu, Xu, Sun, Gong, Shao: "Neferine, an alkaloid ingredient in lotus seed embryo, inhibits proliferation of human osteosarcoma cells by promoting p38 MAPK-mediated p21 stabilization.

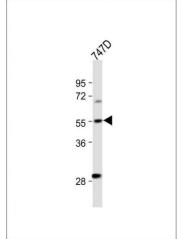
"in: European journal of pharmacology, Vol. 677, Issue 1-3, pp. 47-54, (2012) (PubMed).

#### **Images**



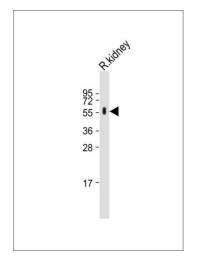
#### Immunohistochemistry (Paraffin-embedded Sections)

**Image** 1. CYP27B1 Antibody (C-term) B immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of CYP27B1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



#### **Western Blotting**

Image 2. All lanes: Anti-CYP27B1 Antibody (C-term) at 1:500 dilution Lane 1: T47D whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 57 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



#### **Western Blotting**

Image 3. Anti-CYP27B1 Antibody (C-term) at 1:2000 dilution + Rat kidney whole tissue lysate Lysates/proteins at 20 μg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 57 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

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	Please check the product details page for more images. Overall 4 images are available for ABIN652999.