

CYP27B1 Polyclonal Antibody | anti-CYP27B1 antibody

Anti-CYP27B1 Antibody

CATALOG # AAA46372	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
------------------------------	--	---

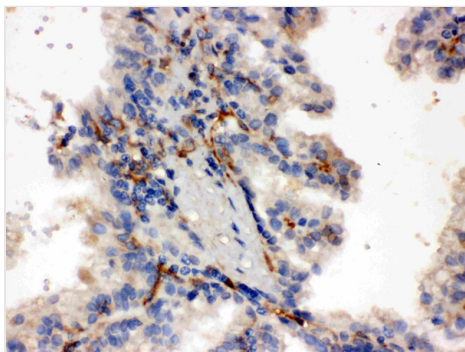
PRODUCT SYNONYMS

CYP27B1; Polyclonal Antibody; Anti-CYP27B1 Antibody; 25-hydroxyvitamin D-1 alpha hydroxylase; 1alpha(OH)ase; 25-hydroxyvitamin D(3) 1-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 XXVIIIB (25-hydroxyvitamin D-1-alpha-hydroxylase) polypeptide 1; Cytochrome P450 subfamily XXVIIIB 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; cytochrome P450; family 27; subfamily B; polypeptide 1; anti-CYP27B1 antibody

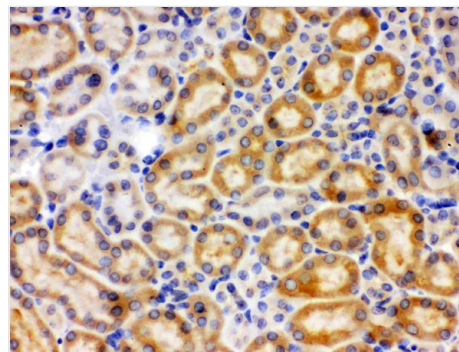
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	508
Applicable Applications for anti-CYP27B1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human CYP27B1 (475-508aa HFEVQPEPGAAPVRPKTRTVLPERSINLQFLDR), different from the related mouse and rat sequences by six amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

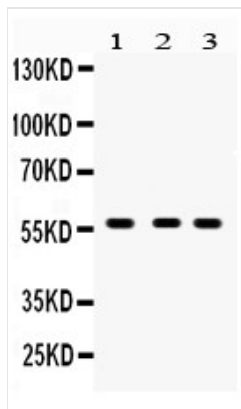
IMAGES



IHC (Immunohistochemistry)
Anti-CYP27B1 Picoband antibody, AAA46372, IHC(P)IHC(P): Human Kidney Cancer Tissue



IHC (Immunohistochemistry)
Anti-CYP27B1 Picoband antibody, AAA46372, IHC(P)IHC(P): Rat Kidney Tissue



WB (Western Blot)
 Anti-CYP27B1 Picoband antibody, AAA46372, Western blottingAll lanes: Anti CYP27B1 (AAA46372) at 0.5ug/mlLane 1: Rat Kidney Tissue Lysate at 50ugLane 2: Mouse Kidney Tissue Lysate at 50ugLane 3: 293T Whole Cell Lysate at 40ugPredicted bind size: 57KDObserved bind size: 57KD

ADDITIONAL INFORMATION

Related Product Information for anti-CYP27B1 antibody	Description: Rabbit IgG polyclonal antibody for 25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial (CYP27B1) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: CYP27B1 belongs to 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.
References	1. "Entrez Gene: cytochrome P450". 2. Monkawa T, Yoshida T, Wakino S, Shinki T, Anazawa H, Deluca HF et al. (Oct 1997). "Molecular cloning of cDNA and genomic DNA for human 25-hydroxyvitamin D3 1 alpha-hydroxylase". Biochemical and Biophysical Research Communications 239 (2): 527-33. 3. Takeyama K, Kitanaka S, Sato T, Kobori M, Yanagisawa J, Kato S (Sep 1997). "25-Hydroxyvitamin D3 1alpha-hydroxylase and vitamin D synthesis". Science (New York, N.Y.) 277 (5333): 1827-30.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503213
NCBI GeneID	1594
NCBI Accession #	NP_000776.1
NCBI GenBank Nucleotide #	NM_000785.3
UniProt Accession #	O15528; Q548T3; B2RC61
Molecular Weight	56,504 Da
NCBI Official Full Name	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial
NCBI Official Synonym Full Names	cytochrome P450 family 27 subfamily B member 1
NCBI Official Symbol	CYP27B1
NCBI Official Synonym Symbols	VDR; CP2B; CYP1; PDDR; VDD1; VDDR; VDDRI; CYP27B; P450c1; CYP1alpha
NCBI Protein Information	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial
UniProt Protein Name	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial
UniProt Gene Name	CYP27B1

UniProt Synonym Gene Names	CYP1ALPHA; CYP27B; VD3 1A hydroxylase
UniProt Entry Name	CP27B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/cyp27b1-antibody-immunohistochemistry-western-blot-elisa/46372>