

Rabbit anti-Human, mouse CYP27B1 Polyclonal Antibody | anti-CYP27B1 antibody

CYP27B1 Antibody (C-term)

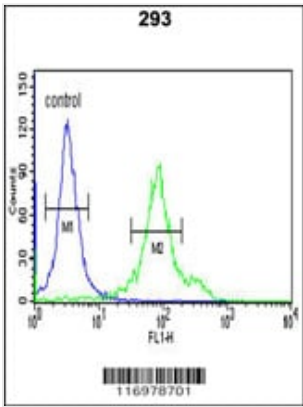
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283904	Rabbit	Human, mouse	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

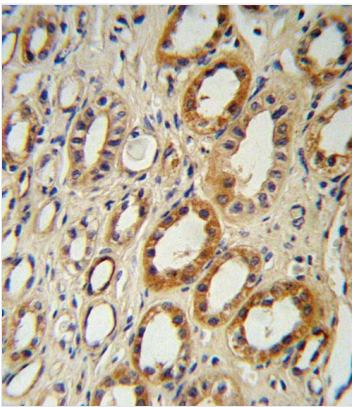
CYP27B1; Polyclonal Antibody; CYP27B1 Antibody (C-term); 25-hydroxyvitamin D-1 alpha hydroxylase; mitochondrial; 25-OHD-1 alpha-hydroxylase; 25-hydroxyvitamin D(3) 1-alpha-hydroxylase; VD3 1A hydroxylase; Calcidiol 1-monooxygenase; Cytochrome P450 subfamily XXVIIB polypeptide 1; Cytochrome P450C1 alpha; Cytochrome P450VD1-alpha; Cytochrome p450 27B1; CYP1ALPHA; CYP27B; anti-CYP27B1 antibody

PRODUCT SPECIFICATIONS

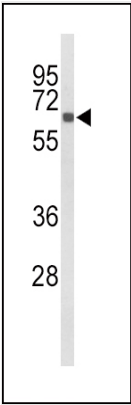
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CYP27B1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 482-508 amino acids from the C-terminal region of human CYP27B1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	482-508
Sequence Length	508
Applicable Applications for anti-CYP27B1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



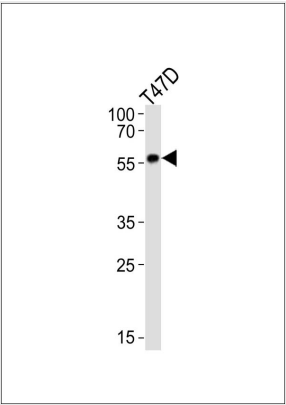
FCM/FACS (Flow Cytometry)
CYP27B1 Antibody (C-term) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
CYP27B1 Antibody (C-term) 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.



WB (Western Blot)
Western blot analysis of CYP27B1 Antibody (C-term) in mouse kidney tissue lysates (35ug/lane). CYP27B1 (arrow) was detected using the purified Pab.



WB (Western Blot)
Western blot analysis of lysate from T47D cell line, using CYP27B1 Antibody (C-term). AAA283904 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

ADDITIONAL INFORMATION

Related Product Information for anti-CYP27B1 antibody	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.
References	Simon,K.C., et.al., Mult. Scler. 16 (2), 133-138 (2010) Zhou,S., et.al., Endocrinology 151 (1), 14-22 (2010)

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	56504
NCBI Official Full Name	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial
NCBI Official Synonym Full Names	cytochrome P450, family 27, subfamily B, polypeptide 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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/cyp27b1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/283904>