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Datasheet for ABIN6139327

anti-CYP27B1 antibody (AA 25-195)

1 Image

Overview

Quantity:	100 µL
Target:	CYP27B1
Binding Specificity:	AA 25-195
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYP27B1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 25-195 of human CYP27B1 (NP_000776.1).
Sequence:	LGYREYHSAR RSLADIPGPS TPSFLAELFC KGGLSRLHEL QVQGAHFPGP VWLASFGTVR TVYVAAPALV EELLRQEGPR PERCSFSPWT EHRRCRQRAC GLLTAEGEREW QLRSLAPL LLRPQAAARY AGTLNNVVCD LVRRLRRQRG RGTGPPALVR DVAGEFYKFG L
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

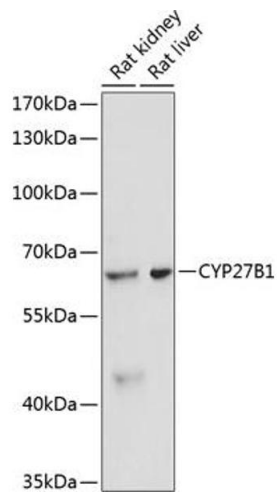
Target:	CYP27B1
Alternative Name:	CYP27B1 (CYP27B1 Products)
Background:	<p>This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other 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.</p> <p>I.,CYP27B1,CP2B,CYP1,CYP1alpha,CYP27B,P450c1,PDDR,VDD1,VDDR,VDDRI,VDR,CYP27B1</p>
Molecular Weight:	56 kDa
Gene ID:	1594
UniProt:	O15528
Pathways:	Metabolism of Steroid Hormones and Vitamin D

Application Details

Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using CYP27B1 antibody (ABIN6130955, ABIN6139327, ABIN6139328 and ABIN6218814) at 1:3000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.