

Summary

Production Name	CYP24A1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	CYP24A1
Alternative Names	CYP24A1; CYP24; 1; 25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial; 24-OHase; Vitamin D(3) 24-hydroxylase; Cytochrome P450 24A1; Cytochrome P450-CC24
Gene ID	1591.0
SwissProt ID	Q07973.The antiserum was produced against synthesized peptide derived from human Cytochrome P450 24A1. AA range:411-460

Application

Dilution Ratio	WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:10000, IF-P/IF-F/ICC/IF 1:50-200
Molecular Weight	38kDa

Product Name: CYP24A1 Rabbit Polyclonal Antibody
Catalog #: APRab09637

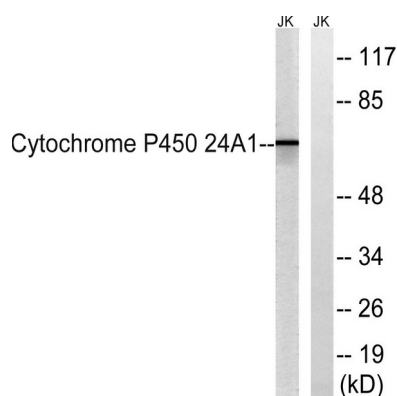


Background

cytochrome P450 family 24 subfamily A member 1(CYP24A1) Homo sapiens 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. This mitochondrial protein initiates the degradation of 1,25-dihydroxyvitamin D3, the physiologically active form of vitamin D3, by hydroxylation of the side chain. In regulating the level of vitamin D3, this enzyme plays a role in calcium homeostasis and the vitamin D endocrine system. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],catalytic activity:Calcidiol + NADPH + O(2) = secalciferol + NADP(+) + H(2)O.,catalytic activity:Calcitriol + NADPH + O(2) = calcitretol + NADP(+) + H(2)O.,cofactor:Heme group.,function:Has a role in maintaining calcium homeostasis. Catalyzes the NADPH-dependent 24-hydroxylation of calcidiol (25-hydroxyvitamin D(3)) and calcitriol (1-alpha,25-dihydroxyvitamin D(3)). The enzyme can perform up to 6 rounds of hydroxylation of calcitriol leading to calcitroic acid. It also shows 23-hydroxylating activity leading to 1-alpha,25-dihydroxyvitamin D(3)-26,23-lactone as end product.,similarity:Belongs to the cytochrome P450 family.,

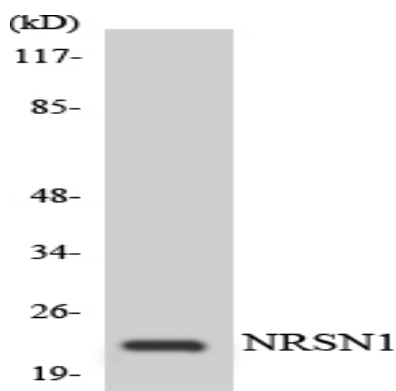
Research Area

Image Data

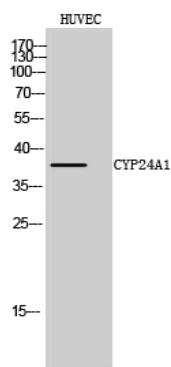


Western blot analysis of lysates from JurKat cells, using Cytochrome P450 24A1 Antibody. The lane on the right is blocked with the synthesized peptide.

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Western blot analysis of the lysates from RAW264.7 cells using C56D2 antibody.



Western Blot analysis of HUVEC cells using CYP24A1 Polyclonal Antibody

Note

For research use only.