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Datasheet for ABIN3042784

## anti-CYP24A1 antibody (AA 153-514)

### 4 Images

#### Overview

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| Quantity:            | 100 µg                                                                             |
| Target:              | CYP24A1                                                                            |
| Binding Specificity: | AA 153-514                                                                         |
| Reactivity:          | Human, Mouse, Rat                                                                  |
| Host:                | Rabbit                                                                             |
| Clonality:           | Polyclonal                                                                         |
| Conjugate:           | This CYP24A1 antibody is un-conjugated                                             |
| Application:         | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

#### Product Details

|                             |                                                                                                                                                                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:                    | Rabbit IgG polyclonal antibody for 1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial (CYP24A1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.                                                                                                                                                |
| Immunogen:                  | E.coli-derived human CYP24A1 recombinant protein (Position: E153-R514). Human CYP24A1 shares 86.2% amino acid (aa) sequence identity with both mouse and rat CYP24A1.                                                                                                                                     |
| Isotype:                    | IgG                                                                                                                                                                                                                                                                                                       |
| Cross-Reactivity (Details): | No cross reactivity with other proteins.                                                                                                                                                                                                                                                                  |
| Characteristics:            | Rabbit IgG polyclonal antibody for 1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial (CYP24A1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.<br>Gene Name: cytochrome P450, family 24, subfamily A, polypeptide 1<br>Protein Name: 1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial |
| Purification:               | Immunogen affinity purified.                                                                                                                                                                                                                                                                              |

## Target Details

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Target: CYP24A1

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Alternative Name: CYP24A1 ([CYP24A1 Products](#))

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Background: 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. And 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.

Synonyms: 1 25 @dihydroxyvitamin D3 24 hydroxylase antibody|1 25 dihydroxyvitamin D(3) 24 hydroxylase antibody|1 antibody|1,25-dihydroxyvitamin D(3) 24-hydroxylase, mitochondrial antibody|24 ohase antibody|24-OHase antibody|25-dihydroxyvitamin D(3) 24-hydroxylase antibody|CP 24 antibody|CP24 antibody|CP24A\_HUMAN antibody|CYP 24 antibody|CYP24 antibody|CYP24A1 antibody|Cytochrome P450 24A1 antibody| Cytochrome P450 24A1 mitochondrial antibody| cytochrome P450 CC24 antibody|Cytochrome P450 family 24 antibody|Cytochrome P450 family 24 subfamily A polypeptide 1 antibody|Cytochrome P450 subfamily XXIV antibody|Cytochrome P450, subfamily XXIV (vitamin D 24-hydroxylase) antibody|Cytochrome P450-CC24 antibody|EC 1.14.13.n4 antibody|Exo mitochondrial protein antibody|HCAI antibody|MGC126273 antibody| MGC126274 antibody|mitochondrial antibody|P450 CC24 antibody|Vitamin D 24 hydroxylase antibody|Vitamin D(3) 24 hydroxylase antibody| Vitamin D(3) 24-hydroxylase antibody

Gene ID: 1591

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UniProt: [Q07973](#)

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Pathways: [Metabolism of Steroid Hormones and Vitamin D](#)

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## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

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## Application Details

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Sodium azide.

Preservative: Sodium azide

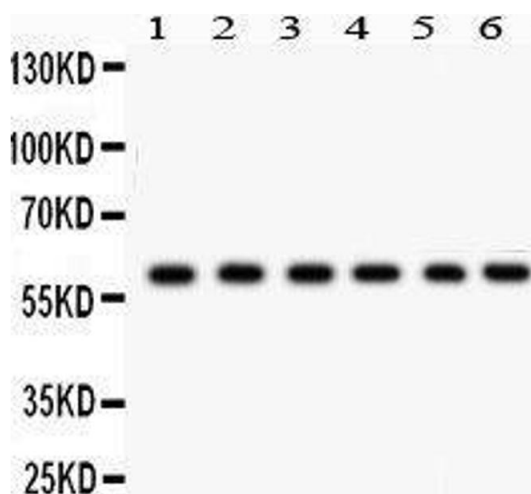
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

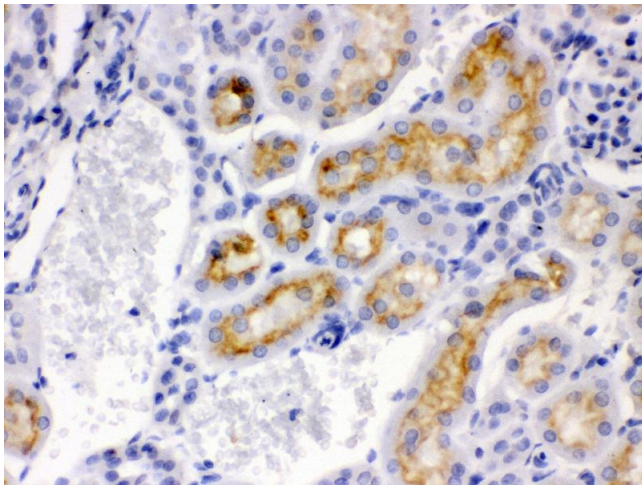
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Images



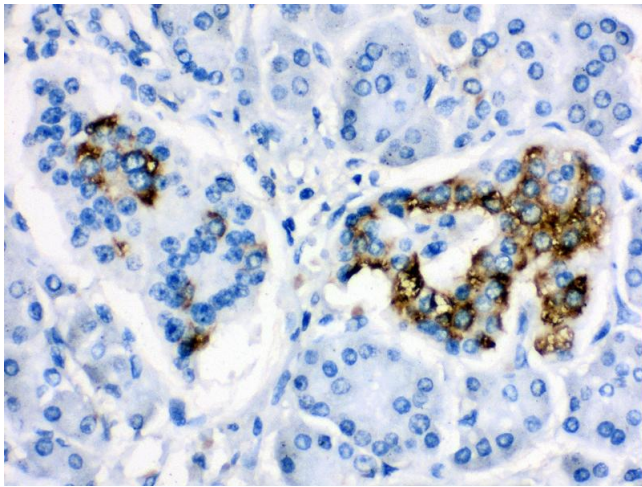
### Western Blotting

Image 1.



#### Immunohistochemistry

**Image 2.** Anti- CYP24A1 Picoband antibody, IHC(P) IHC(P):  
Mouse Kidney Tissue



#### Immunohistochemistry

**Image 3.** Anti- CYP24A1 Picoband antibody, IHC(P) IHC(P):  
Human Pancreatic Cancer Tissue

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3042784.