

**Cytochrome P450 26A1 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51143****Specification**

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**Cytochrome P450 26A1 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IP, ICC, E         |
| Primary Accession | <a href="#">O43174</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 56 KDa                 |

**Cytochrome P450 26A1 Antibody - Additional Information****Gene ID** 1592**Other Names**

Cytochrome P450 26A1, 114--, Cytochrome P450 retinoic acid-inactivating 1, Cytochrome P450RAI, hP450RAI, Retinoic acid 4-hydroxylase, Retinoic acid-metabolizing cytochrome, CYP26A1, CYP26, P450RAI1

**Dilution**

WB~~1:1000

IP~~N/A

ICC~~N/A

E~~N/A

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Cytochrome P450 26A1 Antibody - Protein Information****Name** CYP26A1 {ECO:0000303|PubMed:26937021, ECO:0000312|HGNC:HGNC:2603}**Function**

A cytochrome P450 monooxygenase involved in the metabolism of retinoates (RAs), the active metabolites of vitamin A, and critical signaling molecules in animals (PubMed:<a href="http://www.uniprot.org/citations/22020119" target="\_blank">22020119</a>, PubMed:<a href="http://www.uniprot.org/citations/9228017" target="\_blank">9228017</a>, PubMed:<a href="http://www.uniprot.org/citations/9716180" target="\_blank">9716180</a>). RAs exist as at least four different isomers: all- trans-RA (atRA), 9-cis-RA, 13-cis-RA, and 9,13-dicis-RA, where atRA is considered to be the biologically active isomer, although 9-cis-RA and 13-cis-RA also have activity (Probable). Catalyzes the hydroxylation of atRA primarily at C-4 and C-18, thereby contributing to the regulation of atRA homeostasis and signaling (PubMed:<a href="http://www.uniprot.org/citations/22020119" target="\_blank">22020119</a>).

href="http://www.uniprot.org/citations/22020119" target="\_blank">22020119</a>, PubMed:<a href="http://www.uniprot.org/citations/9228017" target="\_blank">9228017</a>, PubMed:<a href="http://www.uniprot.org/citations/9716180" target="\_blank">9716180</a>). Hydroxylation of atRA limits its biological activity and initiates a degradative process leading to its eventual elimination (Probable). Involved in the conversion of atRA to all-trans-4-oxo-RA. Able to metabolize other RAs such as 9-cis, 13-cis and 9,13-di-cis RA (By similarity) (PubMed:<a href="http://www.uniprot.org/citations/9228017" target="\_blank">9228017</a>). Can oxidize all-trans-13,14- dihydroretinoate (DRA) to metabolites which could include all-trans-4- oxo-DRA, all-trans-4-hydroxy-DRA, all-trans-5,8-epoxy-DRA, and all- trans-18-hydroxy-DRA (By similarity). May play a role in the oxidative metabolism of xenobiotics such as tazarotenic acid (PubMed:<a href="http://www.uniprot.org/citations/26937021" target="\_blank">26937021</a>).

### **Cellular Location**

Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

### **Tissue Location**

Expressed in most fetal and adult tissues with highest levels in adult liver, heart, pituitary gland, adrenal gland, placenta and regions of the brain (PubMed:9826557). Expressed at high levels in lung, pancreas, skin and uterus (at protein level) (PubMed:22020119). Lower expression level is detected in spleen, kidney, intestine and adipose tissue (at protein level) (PubMed:22020119).

## **Cytochrome P450 26A1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Cytochrome P450 26A1 Antibody - Images**

## **Cytochrome P450 26A1 Antibody - Background**

Plays a key role in retinoic acid metabolism. Acts on retinoids, including all-trans-retinoic acid (RA) and its stereoisomer 9-cis-RA. Capable of both 4-hydroxylation and 18- hydroxylation. Responsible for generation of several hydroxylated forms of RA, including 4-OH-RA, 4-oxo-RA and 18-OH-RA.

## **Cytochrome P450 26A1 Antibody - References**

White J.A.,et al.J. Biol. Chem. 272:18538-18541(1997).  
Sonneveld E.,et al.Cell Growth Differ. 9:629-637(1998).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Deloukas P.,et al.Nature 429:375-381(2004).  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.