

**CYP26 / CYP26A1 Antibody (Internal)**  
**Goat Polyclonal Antibody**  
**Catalog # ALS13190****Specification****CYP26 / CYP26A1 Antibody (Internal) - Product Information**

Application	IHC
Primary Accession	<a href="#">O43174</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	56kDa KDa

**CYP26 / CYP26A1 Antibody (Internal) - Additional Information****Gene ID** 1592**Other Names**

Cytochrome P450 26A1, 1.14.-.-, Cytochrome P450 retinoic acid-inactivating 1, Cytochrome P450RAI, hP450RAI, Retinoic acid 4-hydroxylase, Retinoic acid-metabolizing cytochrome, CYP26A1, CYP26, P450RAI1

**Target/Specificity**

Human CYP26A1. This antibody is expected to recognize both reported isoforms (NP\_000774.2; NP\_476498.1)

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

CYP26 / CYP26A1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

**CYP26 / CYP26A1 Antibody (Internal) - 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>, PubMed:<a href="http://www.uniprot.org/citations/22020119" target="\_blank">22020119</a>, PubMed:<a href="http://www.uniprot.org/citations/22020119" target="\_blank">22020119</a>).

[9228017](http://www.uniprot.org/citations/9228017), PubMed: [9716180](http://www.uniprot.org/citations/9716180)). 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: [9228017](http://www.uniprot.org/citations/9228017)). 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: [26937021](http://www.uniprot.org/citations/26937021)).

#### **Cellular Location**

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

#### **Tissue Location**

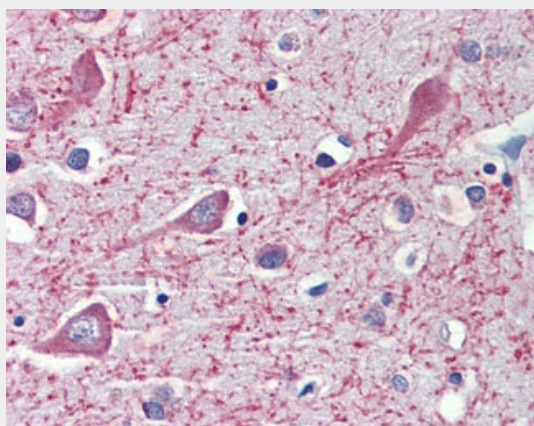
Expressed in most fetal and adult tissues with highest levels in adult liver, heart, pituitary gland, adrenal gland, placenta and regions of the brain (PubMed:9826557). Expressed at high levels in lung, pancreas, skin and uterus (at protein level) (PubMed:22020119). Lower expression level is detected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

### **CYP26 / CYP26A1 Antibody (Internal) - 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](#)

### **CYP26 / CYP26A1 Antibody (Internal) - Images**



Anti-CYP26A1 antibody IHC of human brain, cortex.

### **CYP26 / CYP26A1 Antibody (Internal) - 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.

**CYP26 / CYP26A1 Antibody (Internal) - 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.