

**CYP26B1 Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF2543a

**Specification**

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**CYP26B1 Antibody (internal region) - Product Information**

Application	IHC
Primary Accession	<a href="#">O9NR63</a>
Other Accession	<a href="#">NP_063938.1</a> , <a href="#">56603</a> , <a href="#">232174 (mouse)</a> , <a href="#">312495 (rat)</a>
Reactivity	Human, Mouse
Predicted	Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	57513

**CYP26B1 Antibody (internal region) - Additional Information**

**Gene ID** 56603

**Other Names**

Cytochrome P450 26B1, 1.14.-., Cytochrome P450 26A2, Cytochrome P450 retinoic acid-inactivating 2, Cytochrome P450RAI-2, Retinoic acid-metabolizing cytochrome, CYP26B1, CYP26A2, P450RAI2

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CYP26B1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**CYP26B1 Antibody (internal region) - Protein Information**

**Name** CYP26B1

**Synonyms** CYP26A2, P450RAI2

**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

[10823918](http://www.uniprot.org/citations/10823918), PubMed: [22020119](http://www.uniprot.org/citations/22020119)). 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: [10823918](http://www.uniprot.org/citations/10823918)). Hydroxylation of atRA limits its biological activity and initiates a degradative process leading to its eventual elimination (PubMed: [10823918](http://www.uniprot.org/citations/10823918), PubMed: [22020119](http://www.uniprot.org/citations/22020119)). Involved in the conversion of atRA to all-trans-4-oxo-RA. 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). Shows preference for the following substrates: atRA > 9-cis-RA > 13-cis-RA (PubMed: [10823918](http://www.uniprot.org/citations/10823918), PubMed: [22020119](http://www.uniprot.org/citations/22020119)). Plays a central role in germ cell development: acts by degrading RAs in the developing testis, preventing STRA8 expression, thereby leading to delay of meiosis. Required for the maintenance of the undifferentiated state of male germ cells during embryonic development in Sertoli cells, inducing arrest in G0 phase of the cell cycle and preventing meiotic entry. Plays a role in skeletal development, both at the level of patterning and in the ossification of bone and the establishment of some synovial joints (PubMed: [22019272](http://www.uniprot.org/citations/22019272)). Essential for postnatal survival (By similarity).

#### Cellular Location

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:O43174}; Peripheral membrane protein {ECO:0000250|UniProtKB:O43174}. Microsome membrane {ECO:0000250|UniProtKB:O43174}; Peripheral membrane protein {ECO:0000250|UniProtKB:O43174}

#### Tissue Location

Highly expressed in brain, particularly in the cerebellum and pons.

### CYP26B1 Antibody (internal region) - 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](#)

### CYP26B1 Antibody (internal region) - Images





AF2543a (4 µg/ml) staining of paraffin embedded Human Cerebellum. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.

#### **CYP26B1 Antibody (internal region) - References**

Retinoid signaling determines germ cell fate in mice. Bowles J, Knight D, Smith C, Wilhelm D, Richman J, Mamiya S, Yashiro K, Chawengsaksophak K, Wilson MJ, Rossant J, Hamada H, Koopman P. *Science*. 2006 Apr 28;312(5773):596-600. Epub 2006 Mar 30. PMID: 16574820