

**Cytochrome P450 2B6 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51146**

## Specification

---

### Cytochrome P450 2B6 Antibody - Product Information

Application	WB, ICC, IHC-P, E
Primary Accession	<a href="#">P20813</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56 KDa

### Cytochrome P450 2B6 Antibody - Additional Information

**Gene ID** 1555

#### Other Names

Cytochrome P450 2B6, 11413-, 4-cineole 2-exo-monooxygenase, CYP11B6, Cytochrome P450 IIB1, CYP2B6

#### 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 2B6 Antibody - Protein Information

**Name** CYP2B6 {ECO:0000303|PubMed:21289075, ECO:0000312|HGNC:HGNC:2615}

#### Function

A cytochrome P450 monooxygenase involved in the metabolism of endocannabinoids and steroids (PubMed: [12865317](http://www.uniprot.org/citations/12865317), PubMed: [21289075](http://www.uniprot.org/citations/21289075)). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (NADPH-- hemoprotein reductase). Catalyzes the epoxidation of double bonds of arachidonylethanolamide (anandamide) to 8,9-, 11,12-, and 14,15- epoxyeicosatrienoic acid ethanolamides (EpETRE-EAs), potentially modulating endocannabinoid system signaling (PubMed: [21289075](http://www.uniprot.org/citations/21289075)). Hydroxylates steroid hormones, including testosterone at C-16 and estrogens at C-2 (PubMed: [12865317](http://www.uniprot.org/citations/12865317), PubMed: [21289075](http://www.uniprot.org/citations/21289075)). Plays a role in the oxidative metabolism of xenobiotics, including plant lipids and drugs (PubMed: [11695850](http://www.uniprot.org/citations/11695850), PubMed: [22909231](http://www.uniprot.org/citations/22909231)). Acts as a 1,4-cineole 2-exo- monooxygenase (PubMed: [11695850](http://www.uniprot.org/citations/11695850))

target="\_blank">11695850</a>).

**Cellular Location**

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

**Tissue Location**

Expressed in liver, lung and heart right ventricle.

**Cytochrome P450 2B6 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 2B6 Antibody - Images****Cytochrome P450 2B6 Antibody - Background**

Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. Acts as a 1,4-cineole 2-exo-monooxygenase.

**Cytochrome P450 2B6 Antibody - References**

Yamano S.,et al.Biochemistry 28:7340-7348(1989).  
Zhuge J.,et al.Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.  
Grimwood J.,et al.Nature 428:529-535(2004).  
Miles J.S.,et al.Nucleic Acids Res. 17:8241-8255(1989).  
Thum T.,et al.Lancet 355:979-983(2000).