

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	P20813
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 I1B1, 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).

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).