

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 IIB1, CYP2B6

DilutionWB~~1:1000
ICC~~N/A
IHC-P~~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 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, PubMed: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 arachidonoyl ethanolamide (anandamide) to 8,9-, 11,12-, and 14,15- epoxyeicosatrienoic acid ethanolamides (EpETRE-EAs), potentially modulating endocannabinoid system signaling (PubMed:21289075). Hydroxylates steroid hormones, including testosterone at C-16 and estrogens at C-2 (PubMed:21289075).

href="http://www.uniprot.org/citations/12865317" target="_blank">12865317, PubMed:21289075). Plays a role in the oxidative metabolism of xenobiotics, including plant lipids and drugs (PubMed:11695850, PubMed:22909231). Acts as a 1,4-cineole 2-exo- monooxygenase (PubMed: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).