

**Cytochrome P450 2D6 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51916**

## Specification

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### Cytochrome P450 2D6 Antibody - Product Information

Application	WB, E
Primary Accession	<a href="#">P10635</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55 KDa

### Cytochrome P450 2D6 Antibody - Additional Information

**Gene ID** 1565

#### Other Names

Cytochrome P450 2D6, CYP11D6, Cytochrome P450-DB1, Debrisoquine 4-hydroxylase, CYP2D6, CYP2DL1

#### 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 2D6 Antibody - Protein Information

**Name** CYP2D6 {ECO:0000303|PubMed:21289075, ECO:0000312|HGNC:HGNC:2625}

#### Function

A cytochrome P450 monooxygenase involved in the metabolism of fatty acids, steroids and retinoids (PubMed: [18698000](http://www.uniprot.org/citations/18698000)), PubMed: [19965576](http://www.uniprot.org/citations/19965576)), PubMed: [20972997](http://www.uniprot.org/citations/20972997)), PubMed: [21289075](http://www.uniprot.org/citations/21289075)), PubMed: [21576599](http://www.uniprot.org/citations/21576599)). 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) (PubMed: [18698000](http://www.uniprot.org/citations/18698000)), PubMed: [19965576](http://www.uniprot.org/citations/19965576)), PubMed: [20972997](http://www.uniprot.org/citations/20972997)), PubMed: [21289075](http://www.uniprot.org/citations/21289075)), PubMed: [21576599](http://www.uniprot.org/citations/21576599)). Catalyzes the epoxidation of double bonds of polyunsaturated fatty acids (PUFA) (PubMed: [19965576](http://www.uniprot.org/citations/19965576)), PubMed: [19965576](http://www.uniprot.org/citations/19965576)), PubMed: [19965576](http://www.uniprot.org/citations/19965576)).

<http://www.uniprot.org/citations/20972997> target="\_blank">20972997</a>). Metabolizes endocannabinoid arachidonylethanolamide (anandamide) to 20-hydroxyeicosatetraenoic acid ethanolamide (20-HETE-EA) and 8,9-, 11,12-, and 14,15-epoxyeicosatrienoic acid ethanolamides (EpETrE-EAs), potentially modulating endocannabinoid system signaling (PubMed:<a href="http://www.uniprot.org/citations/18698000" target="\_blank">18698000</a>, PubMed:<a href="http://www.uniprot.org/citations/21289075" target="\_blank">21289075</a>). Catalyzes the hydroxylation of carbon-hydrogen bonds. Metabolizes cholesterol toward 25-hydroxycholesterol, a physiological regulator of cellular cholesterol homeostasis (PubMed:<a href="http://www.uniprot.org/citations/21576599" target="\_blank">21576599</a>). Catalyzes the oxidative transformations of all-trans retinol to all-trans retinal, a precursor for the active form all-trans-retinoic acid (PubMed:<a href="http://www.uniprot.org/citations/10681376" target="\_blank">10681376</a>). Also involved in the oxidative metabolism of drugs such as antiarrhythmics, adrenoceptor antagonists, and tricyclic antidepressants.

#### Cellular Location

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

### Cytochrome P450 2D6 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 2D6 Antibody - Images

### Cytochrome P450 2D6 Antibody - Background

Responsible for the metabolism of many drugs and environmental chemicals that it oxidizes. It is involved in the metabolism of drugs such as antiarrhythmics, adrenoceptor antagonists, and tricyclic antidepressants.

### Cytochrome P450 2D6 Antibody - References

- Gonzalez F.J.,et al.Genomics 2:174-179(1988).  
Gonzalez F.J.,et al.Nature 331:442-446(1988).  
Kimura S.,et al.Am. J. Hum. Genet. 45:889-904(1989).  
Gaedigk A.,et al.Pharmacogenomics J. 5:173-182(2005).  
Gaedigk A.,et al.Pharmacogenomics J. 5:276-276(2005).