

**Cytochrome P450 2D6 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51914**

**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

**Target/Specificity**

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Cytochrome P450 2D6. The exact sequence is proprietary.

**Dilution**

WB~~1:1000  
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 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:<<http://www.uniprot.org/citations/18698000>>18698000</a>, PubMed:<<http://www.uniprot.org/citations/19965576>>19965576</a>, PubMed:<<http://www.uniprot.org/citations/20972997>>20972997</a>, PubMed:<<http://www.uniprot.org/citations/21289075>>21289075</a>, PubMed:<<http://www.uniprot.org/citations/21576599>>21576599</a>). 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:<a href="http://www.uniprot.org/citations/18698000" target="\_blank">18698000</a>, PubMed:<a href="http://www.uniprot.org/citations/19965576" target="\_blank">19965576</a>, PubMed:<a href="http://www.uniprot.org/citations/20972997" target="\_blank">20972997</a>, PubMed:<a href="http://www.uniprot.org/citations/21289075" target="\_blank">21289075</a>, PubMed:<a href="http://www.uniprot.org/citations/21576599" target="\_blank">21576599</a>). Catalyzes the epoxidation of double bonds of polyunsaturated fatty acids (PUFA) (PubMed:<a href="http://www.uniprot.org/citations/19965576" target="\_blank">19965576</a>, PubMed:<a href="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 (EpETE-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).