

# CYP2D6 Polyclonal Antibody

Catalog # AP69400

## Product Information

Application	WB
Primary Accession	<a href="#">P10635</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55769

## Additional Information

Gene ID	1565
Other Names	CYP2D6; CYP2DL1; Cytochrome P450 2D6; CYP11D6; Cytochrome P450-DB1; Debrisoquine 4-hydroxylase
Dilution	WB--Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

Name	CYP2D6 {ECO:0000303   PubMed:21289075, ECO:0000312   HGNC:HGNC:2625}
Function	<p>A cytochrome P450 monooxygenase involved in the metabolism of fatty acids, steroids and retinoids (PubMed:<a href="#">18698000</a>, PubMed:<a href="#">19965576</a>, PubMed:<a href="#">20972997</a>, PubMed:<a href="#">21289075</a>, PubMed:<a href="#">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="#">18698000</a>, PubMed:<a href="#">19965576</a>, PubMed:<a href="#">20972997</a>, PubMed:<a href="#">21289075</a>, PubMed:<a href="#">21576599</a>). Catalyzes the epoxidation of double bonds of polyunsaturated fatty acids (PUFA) (PubMed:<a href="#">19965576</a>, PubMed:<a href="#">20972997</a>). Metabolizes endocannabinoid arachidonoyl ethanolamide (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="#">18698000</a>, PubMed:<a href="#">21289075</a>). Catalyzes the hydroxylation of carbon-hydrogen bonds. Metabolizes cholesterol toward 25-hydroxycholesterol, a physiological regulator of cellular cholesterol</p>

homeostasis (PubMed:[21576599](#)). Catalyzes the oxidative transformations of all-trans retinol to all-trans retinal, a precursor for the active form all-trans-retinoic acid (PubMed:[10681376](#)). 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

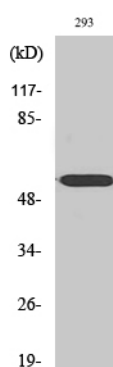
## Background

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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.

## Images

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Western Blot analysis of various cells using CYP2D6 Polyclonal Antibody

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