

# CYP2D6 Polyclonal Antibody

Catalog # AP69397

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC, E
<b>Primary Accession</b>	<a href="#">P10635</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	55769

## Additional Information

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<b>Gene ID</b>	1565
<b>Other Names</b>	CYP2D6; CYP2DL1; Cytochrome P450 2D6; CYP11D6; Cytochrome P450-DB1; Debrisoquine 4-hydroxylase
<b>Dilution</b>	WB--Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. IHC-P--Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. IF--1:50~200 ICC--N/A E--N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	CYP2D6 {ECO:0000303   PubMed:21289075, ECO:0000312   HGNC:HGNC:2625}
<b>Function</b>	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 arachidonylethanolamide (anandamide) to 20-hydroxyecosatetraenoic acid ethanolamide (20-HETE-EA) and 8,9-, 11,12-, and 14,15-epoxyecosatrienoic 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 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

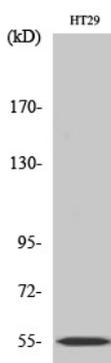
## Background

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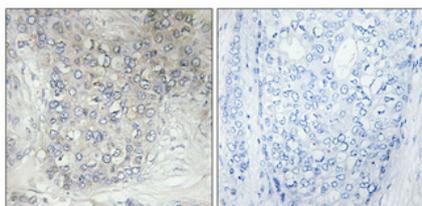
Responsible for the metabolism of many drugs and environmental chemicals that it oxidizes. It is involved in the metabolism of drugs such as antiarrhythmics, adrenoceptor antagonists, and tricyclic antidepressants.

## Images

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Western Blot analysis of various cells using CYP2D6 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100(4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.