

CYP2D6 Polyclonal Antibody
Catalog # AP69397**Specification****CYP2D6 Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	P10635
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

CYP2D6 Polyclonal Antibody - 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. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.

IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

CYP2D6 Polyclonal 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, PubMed:19965576, PubMed:20972997, PubMed:21289075, PubMed: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, PubMed:19965576, PubMed:20972997, PubMed:21289075, PubMed:21576599).

[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: [20972997](http://www.uniprot.org/citations/20972997)). 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: [18698000](http://www.uniprot.org/citations/18698000), PubMed: [21289075](http://www.uniprot.org/citations/21289075)). Catalyzes the hydroxylation of carbon-hydrogen bonds. Metabolizes cholesterol toward 25-hydroxycholesterol, a physiological regulator of cellular cholesterol homeostasis (PubMed: [21576599](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/10681376)). Also involved in the oxidative metabolism of drugs such as antiarrhythmics, adrenoceptor antagonists, and tricyclic antidepressants.

Cellular Location

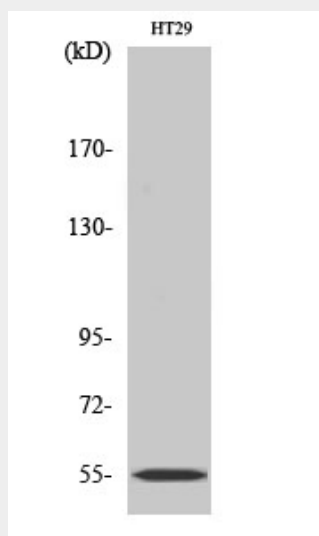
Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

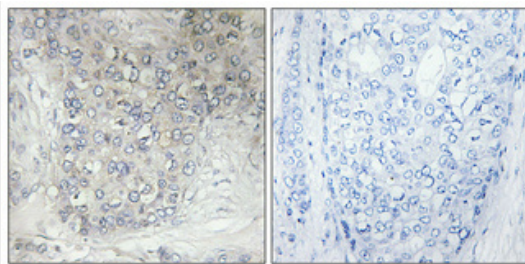
CYP2D6 Polyclonal Antibody - Protocols

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](#)

CYP2D6 Polyclonal Antibody - Images





CYP2D6 Polyclonal 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.