

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

Application	WB
Primary Accession	<a href="#">P10635</a>
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.

**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:<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>). 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

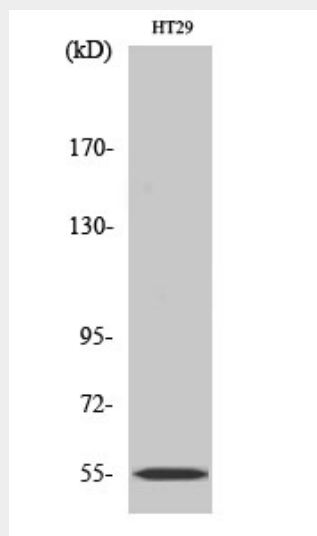
Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

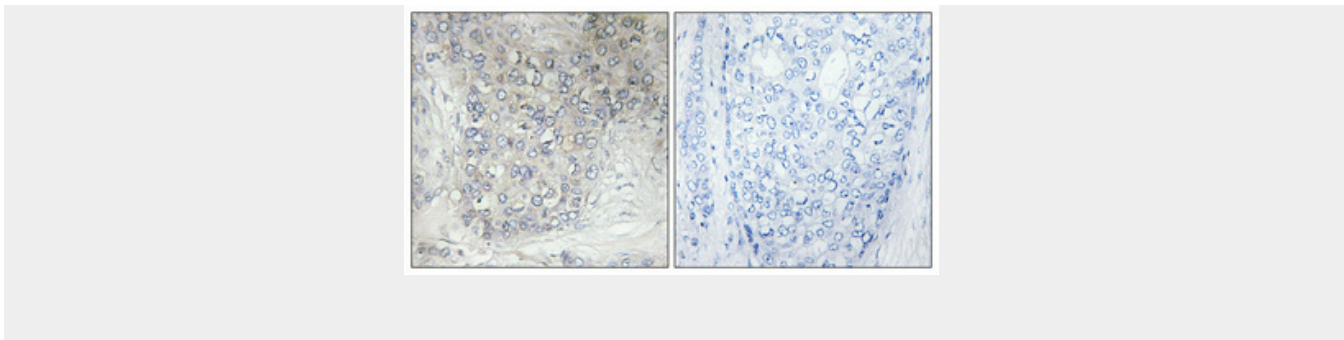
### CYP2D6 Polyclonal Antibody - Protocols

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.