

Cytochrome P450 2D6 Rabbit mAb
Catalog # AP76459**Specification****Cytochrome P450 2D6 Rabbit mAb - Product Information**

Application	WB, IHC, IF
Primary Accession	P10635
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody

Cytochrome P450 2D6 Rabbit mAb - Additional Information**Gene ID** 1565**Other Names**
CYP2D6**Dilution**

WB~~1/500-1/1000

IHC~~1/50-1/100

IF~~1/50-1/200

Format

Liquid

Cytochrome P450 2D6 Rabbit mAb - 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](http://www.uniprot.org/citations/18698000)), PubMed: [19965576](http://www.uniprot.org/citations/19965576)), PubMed: [20972997](http://www.uniprot.org/citations/20972997)), PubMed: [21289075](http://www.uniprot.org/citations/21289075)), PubMed: [21576599](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/18698000)), PubMed: [19965576](http://www.uniprot.org/citations/19965576)), PubMed: [20972997](http://www.uniprot.org/citations/20972997)), PubMed: [21289075](http://www.uniprot.org/citations/21289075)), PubMed: [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, PubMed:21289075). 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

Cytochrome P450 2D6 Rabbit mAb - 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 Rabbit mAb - Images



