

Anti-CYP2D6 Antibody (Internal)
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17404**Specification**

Anti-CYP2D6 Antibody (Internal) - Product Information

Application	WB, IHC-P
Primary Accession	P10635
Predicted	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55769

Anti-CYP2D6 Antibody (Internal) - Additional Information**Gene ID 1565**Alias Symbol **CYP2D6****Other Names**

CYP2D6, CPD6, CYP11D6, Cytochrome P450 2D6, CYP2D, CYP2D8P2, Cytochrome p450 iid6, CYP2D7P2, CYP2DL1, Cytochrome P450-DB1, Debrisoquine 4-hydroxylase, p450C2D, p450-DB1, p450DB1, CYP2D7AP, CYP2D7BP

Target/Specificity

Recognizes endogenous levels of Cytochrome P450 2D6 protein.

Reconstitution & Storage

PBS, pH 7.3, 0.01% sodium azide, 30% glycerol. Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions

Anti-CYP2D6 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-CYP2D6 Antibody (Internal) - 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).

[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 (EpETE-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

Anti-CYP2D6 Antibody (Internal) - 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](#)

Anti-CYP2D6 Antibody (Internal) - Images