

CYP2D6 Polyclonal Antibody

Catalog # AP69397

Product Information

Application	WB, IHC-P
Primary Accession	<u>P10635</u>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55769

Additional Information

Gene ID	1565
Other Names	CYP2D6; CYP2DL1; Cytochrome P450 2D6; CYPIID6; 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

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: <u>18698000</u> , PubMed: <u>19965576</u> , PubMed: <u>20972997</u> , PubMed: <u>21289075</u> , PubMed: <u>21576599</u>). 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 (NADPHhemoprotein reductase) (PubMed: <u>18698000</u> , PubMed: <u>19965576</u> , PubMed: <u>20972997</u> , PubMed: <u>21289075</u> , PubMed: <u>21576599</u>). Catalyzes the epoxidation of double bonds of polyunsaturated fatty acids (PUFA) (PubMed: <u>19965576</u> , PubMed: <u>20972997</u>). Metabolizes endocannabinoid arachidonoylethanolamide (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: <u>18698000</u> , PubMed: <u>21289075</u>). Catalyzes the hydroxylation of carbon-hydrogen bonds. Metabolizes cholesterol toward 25- hydroxycholesterol, a physiological regulator of cellular cholesterol

	homeostasis (PubMed: <u>21576599</u>). Catalyzes the oxidative transformations of all-trans retinol to all-trans retinal, a precursor for the active form all-trans-retinoic acid (PubMed: <u>10681376</u>). 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

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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immunogen peptide.