

**Product Name: Cytochrome P450 2D6 (9F17) Rabbit
Monoclonal Antibody
Catalog #: AMRe09713**



Summary

Production Name	Cytochrome P450 2D6 (9F17) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	CYP2D6 {ECO:0000303 PubMed:21289075, ECO:0000312 HGNC:HGNC:2625}
Alternative Names	CPD6; CYP2D; CYP2D6; CYP2D7AP; CYP2D7BP; CYP2D7P2; CYP2D8P2; CYP2DL1; CYP11D6; P450 DB1; P450C2D; P450DB1; Xenobiotic monooxygenase;
Gene ID	1565.0
SwissProt ID	P10635.Recombinant protein of human CYP2D6

Application

Dilution Ratio	WB: 1:1000
Molecular Weight	56kDa

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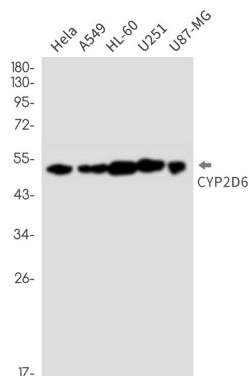
Background

Cytochrome P450 2D6 is a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. 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](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.

Research Area

Image Data

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Western blot detection of CYP2D6 in Hela,A549,HL-60,U251,U87-MG cell lysates using CYP2D6 antibody(1:1000 diluted).

Note

For research use only.