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Goat Anti-CYP2D6 Antibody (C Terminus)

Purified Goat Polyclonal Antibody
Catalog # AF4311a

Product Information

Application	WB, E
Primary Accession	P10635
Other Accession	NP_000097.3, NP_001020332.2, 1565
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	55769

Additional Information

Gene ID	1565
Other Names	CYP2D6; cytochrome P450, family 2, subfamily D, polypeptide 6; CPD6; CYP2D; CYP2D7AP; CYP2D7BP; CYP2D7P2; CYP2D8P2; CYP2DL1; CYPIID6; P450-DB1; P450C2D; P450DB1; cytochrome P450 2D6; cytochrome P450, family 2, subfamily D, polypeptide 7 pseudogene 2; cyto
Target/Specificity	This antibody is expected to recognize both reported isoforms (NP_000097.3; NP_001020332.2).
Dilution	WB~~1:1000 E~~N/A
Format	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Immunogen	Peptide with sequence C-PTGQPRPSHH , from the C Terminus of the protein sequence according to NP_000097.3; NP_001020332.2.
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Goat Anti-CYP2D6 Antibody (C Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

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, PubMed:19965576, PubMed:20972997, PubMed:21289075, PubMed:21576599). Catalyzes the epoxidation of double bonds of polyunsaturated fatty acids (PUFA) (PubMed:19965576, PubMed:20972997). 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: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

References

Wang A, Savas U, Hsu MH, Stout CD, Johnson EF.

Images

AF4311a (2 µg/ml) staining of Human Liver lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.