

Goat Anti-CYP2D6 Antibody (C Terminus)
Purified Goat Polyclonal Antibody
Catalog # AF4311a**Specification**

Goat Anti-CYP2D6 Antibody (C Terminus) - 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

Goat Anti-CYP2D6 Antibody (C Terminus) - 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.

Goat Anti-CYP2D6 Antibody (C Terminus) - 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 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, 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

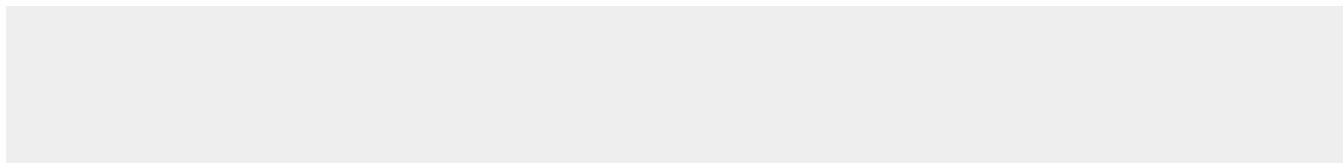
Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

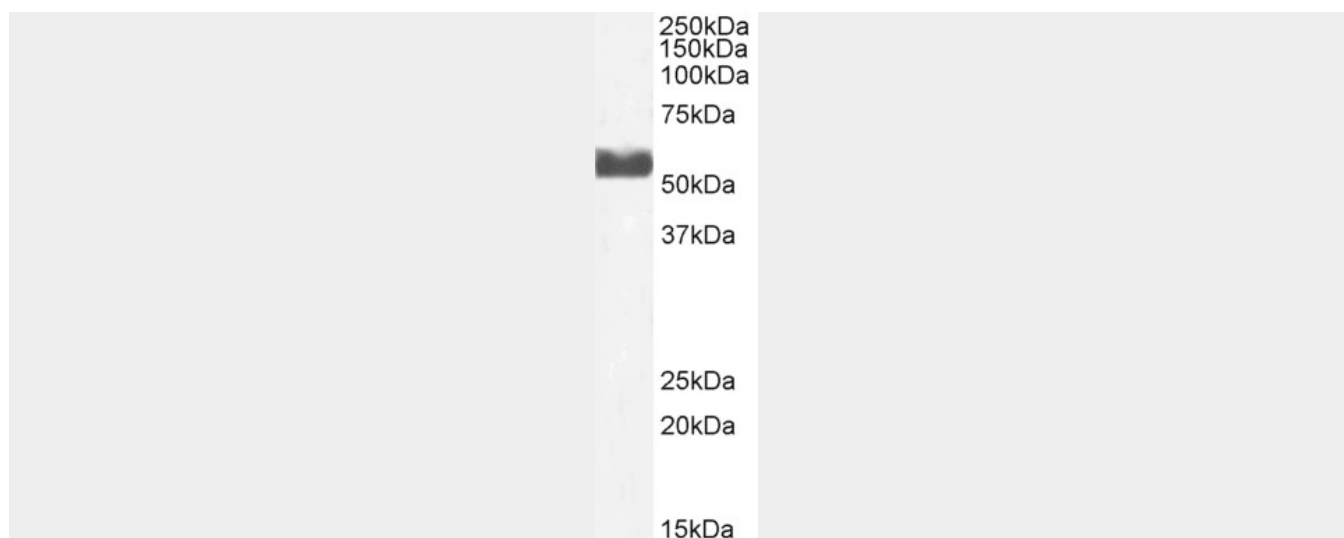
Goat Anti-CYP2D6 Antibody (C Terminus) - Protocols

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](#)

Goat Anti-CYP2D6 Antibody (C Terminus) - Images





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

Goat Anti-CYP2D6 Antibody (C Terminus) - References

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