

# 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: <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 (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: <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: 18698000, PubMed: 21289075). Catalyzes the hydroxylation of carbon-hydrogen bonds. Metabolizes cholesterol toward 25hydroxycholesterol, 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.

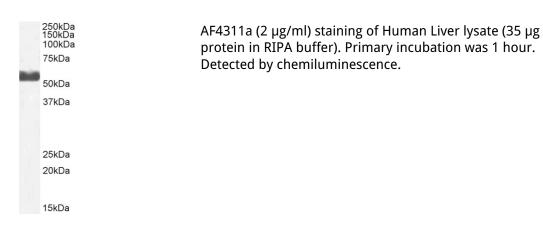
#### **Cellular Location**

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

### References

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

## **Images**



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.