

**Goat Anti-CYP2B6 Antibody (internal region)**  
**Purified Goat Polyclonal Antibody**  
**Catalog # AF4234a**

**Specification**

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**Goat Anti-CYP2B6 Antibody (internal region) - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P20813</a>
Other Accession	<a href="#">NP_000758.1</a>
Reactivity	<b>Human</b>
Predicted	<b>Human</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Concentration	<b>0.5</b>
Calculated MW	<b>56278</b>

**Goat Anti-CYP2B6 Antibody (internal region) - Additional Information**

**Gene ID** 1555

**Other Names**

CYP2B6; cytochrome P450, family 2, subfamily B, polypeptide 6; CPB6; CYP2B; CYP2B7; CYP2B7P; CYP2B6; EFVM; IIB1; P450; 1, 4-cineole 2-exo-monooxygenase; cytochrome P450 2B6; cytochrome P450 IIB1; cytochrome P450, subfamily IIB (phenobarbital-inducible), polypeptide 6

**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-HSVEKHRETL DPS, from the internal region of the protein sequence according to NP\_000758.1.

**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-CYP2B6 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-CYP2B6 Antibody (internal region) - Protein Information**

**Name** CYP2B6 {ECO:0000303|PubMed:21289075, ECO:0000312|HGNC:HGNC:2615}

**Function**

A cytochrome P450 monooxygenase involved in the metabolism of endocannabinoids and steroids

(PubMed:<a href="http://www.uniprot.org/citations/12865317" target="\_blank">12865317</a>, PubMed:<a href="http://www.uniprot.org/citations/21289075" target="\_blank">21289075</a>). 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). Catalyzes the epoxidation of double bonds of arachidonylethanolamide (anandamide) to 8,9-, 11,12-, and 14,15- epoxyeicosatrienoic acid ethanolamides (EpETrE-EAs), potentially modulating endocannabinoid system signaling (PubMed:<a href="http://www.uniprot.org/citations/21289075" target="\_blank">21289075</a>). Hydroxylates steroid hormones, including testosterone at C-16 and estrogens at C-2 (PubMed:<a href="http://www.uniprot.org/citations/12865317" target="\_blank">12865317</a>, PubMed:<a href="http://www.uniprot.org/citations/21289075" target="\_blank">21289075</a>). Plays a role in the oxidative metabolism of xenobiotics, including plant lipids and drugs (PubMed:<a href="http://www.uniprot.org/citations/11695850" target="\_blank">11695850</a>, PubMed:<a href="http://www.uniprot.org/citations/22909231" target="\_blank">22909231</a>). Acts as a 1,4-cineole 2-exo- monooxygenase (PubMed:<a href="http://www.uniprot.org/citations/11695850" target="\_blank">11695850</a>).

#### Cellular Location

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

#### Tissue Location

Expressed in liver, lung and heart right ventricle.

### Goat Anti-CYP2B6 Antibody (internal region) - 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-CYP2B6 Antibody (internal region) - Images





AF4234a (0.1  $\mu\text{g/ml}$ ) staining of HepG2 (A) and K562 (B) lysates (35  $\mu\text{g}$  protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **Goat Anti-CYP2B6 Antibody (internal region) - References**

Quantitative prediction of CYP2B6 induction by estradiol during pregnancy: potential explanation for increased methadone clearance during pregnancy. Dickmann LJ, Isoherranen N. Drug metabolism and disposition: the biological fate of chemicals 2013 Feb 41 (2): 270-4.