



## Anti-CYP2C9 polyclonal antibody (CPBT-67706RH)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

**Product Overview** This product recognises human cytochrome p450 2C9 (CYP2C9). P450 enzymes are divided into two groups: steroidogenic and xenobiotic. The latter group is comprised of three families 1, 2 and 3. The xenobiotic p450s are involved in most oxidative drug metabolism. Work in this area is ongoing but studies suggest that all known drug metabolism is mediated by family members: CYP3A, CYP2D6, CYP1A2, CYP2C9/10, CYP2C19 and CYP2E1. is a neutralizing antibody which is a potent inhibitor of CYP2C9 activity. Inhibition of CYP2C19 activity has also been observed.

<b>Specificity</b>	CYP2C9
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC-Fr; FA
<b>Format</b>	Serum - liquid
<b>Size</b>	50 µl
<b>Preservative</b>	None
<b>Storage</b>	in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

# GENE INFORMATION

<b>Gene Name</b>	<a href="#">CYP2C9 cytochrome P450, family 2, subfamily C, polypeptide 9 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	CYP2C9
<b>Synonyms</b>	CYP2C9; cytochrome P450, family 2, subfamily C, polypeptide 9; CPC9; CYP2C; CYP2C10; CYP11C9; P45011C9; cytochrome P450 2C9; cytochrome P-450MP; cytochrome P450 PB-1; microsomal monooxygenase; xenobiotic monooxygenase; flavoprotein-linked monooxygenase; c
<b>Entrez Gene ID</b>	<a href="#">1559</a>
<b>Protein Refseq</b>	<a href="#">NP_000762</a>
<b>UniProt ID</b>	P11712
<b>Chromosome Location</b>	10q24
<b>Pathway</b>	Arachidonate Epoxygenase / Epoxide Hydrolase; Arachidonic acid metabolism; Biological oxidations; CYP2E1 reactions; Chemical carcinogenesis; Cytochrome P450 - arranged by substrate type; Defective CYP11A1 causes Adrenal insufficiency, congenital, with 46,XY sex reversal (AICSR); Defective CYP11B1 causes Adrenal hyperplasia 4 (AH4);
<b>Function</b>	(R)-limonene 6-monooxygenase activity; (S)-limonene 6-monooxygenase activity; (S)-limonene 7-monooxygenase activity; arachidonic acid epoxygenase activity; caffeine oxidase activity; drug binding; heme binding; iron ion binding; monooxygenase activity; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen; oxygen binding; steroid hydroxylase activity;