



Anti-CYP2C9 monoclonal antibody (DCABH-11192)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and its expression is induced by rifampin. The enzyme is known to metabolize many xenobiotics, including phenytoin, tolbutamide, ibuprofen and S-warfarin. Studies identifying individuals who are poor metabolizers of phenytoin and tolbutamide suggest that this gene is polymorphic. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24.
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Immunogen	A synthetic peptide of human CYP2C9 is used for rabbit immunization.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A
Conjugate	Unconjugated
Applications	Western Blot (Transfected lysate); ELISA
Buffer	In 1x PBS, pH 7.4
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	CYP2C9 cytochrome P450, family 2, subfamily C, polypeptide 9 [Homo sapiens]
Official Symbol	CYP2C9
Synonyms	CYP2C9; cytochrome P450, family 2, subfamily C, polypeptide 9; CYP2C10, cytochrome P450, subfamily IIC (mephenytoin 4 hydroxylase), polypeptide 9; cytochrome P450 2C9; P450IIC9; cytochrome P-450MP; cytochrome P450 PB-1; microsomal monooxygenase; xenobiotic monooxygenase; flavoprotein-linked monooxygenase; cytochrome P-450 S-mephenytoin 4-hydroxylase; CPC9; CYP2C; CYP2C10; CYP1IC9; MGC88320; MGC149605;
Entrez Gene ID	1559
Protein Refseq	NP_000762
UniProt ID	P11712
Chromosome Location	10q24.1
Pathway	Arachidonate Epoxygenase / Epoxide Hydrolase, organism-specific biosystem; Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem;
Function	(R)-limonene 6-monooxygenase activity; (S)-limonene 6-monooxygenase activity; (S)-limonene 7-monooxygenase activity; caffeine oxidase activity; drug binding; electron carrier activity; heme binding; metal ion binding; monooxygenase activity; monooxygenase