



# Anti-CYP2C19 monoclonal antibody (DCABH-11190)

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 is known to metabolize many xenobiotics, including the anticonvulsive drug mephenytoin, omeprazole, diazepam and some barbiturates. Polymorphism within this gene is associated with variable ability to metabolize mephenytoin, known as the poor metabolizer and extensive metabolizer phenotypes. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24.

<b>Immunogen</b>	A synthetic peptide of human CYP2C19 is used for rabbit immunization.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Mouse, Rat, Human
<b>Purification</b>	Protein A
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC-P, WB
<b>Size</b>	100 µl
<b>Buffer</b>	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 59% PBS, 0.05% BSA,
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

# GENE INFORMATION

Gene Name	<a href="#">CYP2C19 cytochrome P450, family 2, subfamily C, polypeptide 19 [ Homo sapiens ]</a>
Official Symbol	CYP2C19
Synonyms	CYP2C19; cytochrome P450, family 2, subfamily C, polypeptide 19; CYP2C, cytochrome P450, subfamily IIC (mephenytoin 4 hydroxylase), polypeptide 19; cytochrome P450 2C19; CPCJ; P450IIC19; CYP1IC17; CYP1IC19; cytochrome P450-11A; cytochrome P450-254C; cytochrome P-450 II C; microsomal monooxygenase; xenobiotic monooxygenase; mephenytoin 4-hydroxylase; S-mephenytoin 4-hydroxylase; (R)-limonene 6-monooxygenase; (S)-limonene 6-monooxygenase; (S)-limonene 7-monooxygenase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 19; CYP2C; P450C2C;
Entrez Gene ID	<a href="#">1557</a>
Protein Refseq	<a href="#">NP_000760</a>
UniProt ID	<a href="#">P33261</a>
Chromosome Location	10q24
Pathway	Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Biological oxidations, organism-specific biosystem; Cytochrome P45 - arranged by substrate type, organism-specific biosystem; Drug metabolism - cytochrome P45, organism-specific biosystem; Drug metabolism - cytochrome P45, conserved biosystem; Linoleic acid metabolism, organism-specific biosystem.
Function	(R)-limonene 6-monooxygenase activity; (S)-limonene 6-monooxygenase activity; (S)-limonene 7-monooxygenase activity; electron carrier activity; enzyme binding; heme binding; metal ion binding; monooxygenase activity; oxidoreductase activity; oxidoreductas