



Anti-CYP2B6 monoclonal antibody (DCABH-11188)

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

PRODUCT INFORMATION

Antigen Description This gene, CYP2B6, 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 phenobarbital. The enzyme is known to metabolize some xenobiotics, such as the anti-cancer drugs cyclophosphamide and ifosphamide. Transcript variants for this gene have been described; however, it has not been resolved whether these transcripts are in fact produced by this gene or by a closely related pseudogene, CYP2B7. Both the gene and the pseudogene are located in the middle of a CYP2A pseudogene found in a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q.

Immunogen	A synthetic peptide of human CYP2B6 is used for rabbit immunization.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A
Conjugate	Unconjugated
Applications	Western Blot (Transfected lysate); ELISA
Size	1 ea
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	CYP2B6 cytochrome P450, family 2, subfamily B, polypeptide 6 [Homo sapiens]
Official Symbol	CYP2B6

Synonyms	CYP2B6; cytochrome P450, family 2, subfamily B, polypeptide 6; CYP2B, cytochrome P450, family 2, subfamily B , cytochrome P450, subfamily IIB (phenobarbital inducible) , cytochrome P450, subfamily IIB (phenobarbital inducible), polypeptide 6; cytochrome P450 2B6; CPB6; CYP11B6; cytochrome P450 IIB1; cytochrome P450, subfamily IIB (phenobarbital-inducible), polypeptide 6; EFVM; IIB1; P450; CYP2B; CYP2B7; CYP2B7P;
Entrez Gene ID	1555
Protein Refseq	NP_000758
UniProt ID	P20813
Chromosome Location	19q13.2
Pathway	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; Metabolic pathways, organism-specific biosystem;
Function	aromatase activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity;