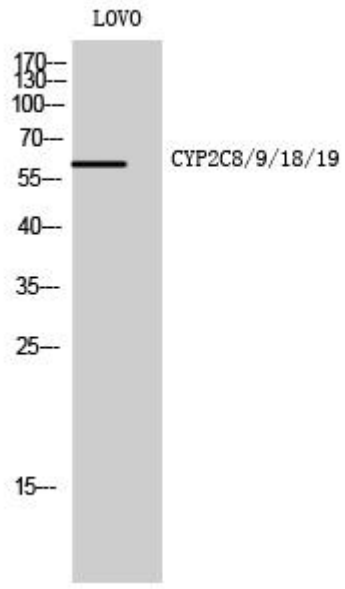
CYP2C8/9/18/19 Monoclonal Antibody

Catalog No	YP-mAb-02585
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	CYP2C8/9/18/19
Protein Name	Cytochrome P450 2C8/9/18/19
Immunogen	The antiserum was produced against synthesized peptide derived from human Cytochrome P450 2C8/9/18/19. AA range:111-160
Specificity	CYP2C8/9/18/19 Monoclonal Antibody detects endogenous levels of CYP2C8/9/18/19 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CYP2C8; Cytochrome P450 2C8; CYPIIC8; Cytochrome P450 IIC2; Cytochrome P450 MP-12; Cytochrome P450 MP-20; Cytochrome P450 form 1; S-mephenytoin 4-hydroxylase; CYP2C9; CYP2C10; Cytochrome P450 2C9; (R)-limonene 6-monooxygenase; (S)-limonene
Observed Band	60kD
Cell Pathway	Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein.
Tissue Specificity	Blood,Kidney,Liver,
Function	catalytic activity:RH + reduced flavoprotein + O(2) = ROH + oxidized flavoprotein + H(2)O.,caution:Alternative splicing has been shown to occur but the shorter forms are believed to be non-functional.,cofactor:Heme group.,function:Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. In the epoxidation of arachidonic acid it generates only 14,15- and 11,12-cis-epoxyeicosatrienoic acids. It is the principal enzyme responsible for the metabolism the anti-cancer drug paclitaxel (taxol).,induction:By phenobarbital.,online information:CYP2C8 alleles,similarity:Belongs to the

	cytochrome P450 family.,
Background	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 phenobarbital. The enzyme is known to metabolize many xenobiotics, including the anticonvulsive drug mephenytoin, benzo(a)pyrene, 7-ethyoxycoumarin, and the anti-cancer drug taxol. This gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Nov 2010],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using CYP2C8/9/18/19 Monoclonal Antibody