

Cytochrome P450 2C9 monoclonal antibody

Catalog: MB66867

Host: Mouse

Reactivity: Human

BackGround:

A cytochrome P450 monooxygenase involved in the metabolism of various endogenous substrates, including fatty acids and steroids .

Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase. Catalyzes the epoxidation of double bonds of polyunsaturated fatty acids. Catalyzes the hydroxylation of carbon-hydrogen bonds. Metabolizes cholesterol toward 25-hydroxycholesterol, a physiological regulator of cellular cholesterol homeostasis .Exhibits low catalytic activity for the formation of catechol estrogens from 17beta-estradiol (E2) and estrone (E1), namely 2-hydroxy E1 and E2 .Catalyzes bisallylic hydroxylation and hydroxylation with double-bond migration of polyunsaturated fatty acids .Also metabolizes plant monoterpenes such as limonene. Oxygenates (R)- and (S)-limonene to produce carveol and perillyl alcohol .Contributes to the wide pharmacokinetics variability of the metabolism of drugs such as S-warfarin, diclofenac, phenytoin, tolbutamide and losartan .

Product:

Mouse IgM. Supplied in crude ascites with 0.01% sodium azide.

Molecular Weight:

~ 55 kDa

Swiss-Prot:

P11712

Purification&Purity:

Applications:

WB (1/500 - 1/1000)

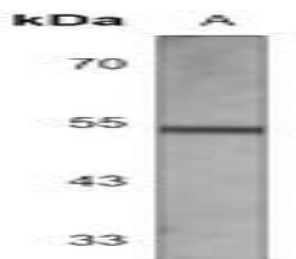
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of Cytochrome P450 2C9 protein.

DATA:



Western blot analysis of Cytochrome P450 2C9 expression in NCIH460 (A) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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