

DATASHEET

Cytochrome P450 2C9 Mouse Monoclonal Antibody(C3667)

CAT. NO. AMA03279

KEY FEATURES

| | | | |
|---------------|---|---------------|--------------|
| Target | Cytochrome P450 2C9 | Source / Host | Mouse |
| Reactivity | Human | Clonality | Monoclonal |
| Applications | WB | Conjugation | Unconjugated |
| Form / Buffer | Mouse IgM. Supplied in crude ascites with 0.01% sodium azide. | Storage | at-20°C |

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 (NADPH--hemoprotein reductase) . Catalyzes the epoxidation of double bonds of polyunsaturated fatty acids (PUFA) . 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 .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

| | |
|----|----------------|
| WB | 1:500 - 1:1000 |
|----|----------------|

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

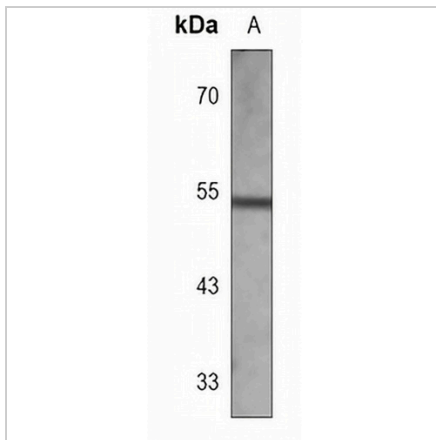
| | |
|-------------------|--|
| Description | Mouse monoclonal antibody to Cytochrome P450 2C9 |
| Specificity | Recognizes endogenous levels of Cytochrome P450 2C9 protein. |
| Antibody Type | Primary antibody |
| Immunogen | KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Cytochrome P450 2C9. The exact sequence is proprietary. |
| Molecular Weight | Predicted: 55 kD; Observed: 54 kD |
| Form/Buffer | Mouse IgM. Supplied in crude ascites with 0.01% sodium azide. |
| Alternative Names | CYP2C10; Cytochrome P450 2C9; (R)-limonene 6-monooxygenase; (S)-limonene 6-monooxygenase; (S)-limonene 7-monooxygenase; CYP11C9; Cytochrome P-450MP; Cytochrome P450 MP-4; Cytochrome P450 MP-8; Cytochrome P450 PB-1; S-mephenytoin 4-hydroxylase |
| Gene Symbol | CYP2C9 |
| Entrez Gene | 1559(Human) |
| SwissProt | P11712(Human) |

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA

Western blot analysis of Cytochrome P450 2C9 expression in NCIH460 (A) whole cell lysates. (Predicted band size: 55 kD; Observed band size: 54 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.