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CYP2F1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP7883c

Specification

CYP2F1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P24903

CYP2F1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 1572

Other Names
Cytochrome P450 2F1, CYPIIF1, CYP2F1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7883c was selected from the Center region of human CYP2F1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CYP2F1 Antibody (Center) Blocking Peptide - Protein Information

Name CYP2F1

Function
May be involved in the metabolism of various pneumotoxicants including naphthalene. Is able to dealkylate ethoxycoumarin, propoxycoumarin, and pentoxyresorufin but possesses no activity toward ethoxyresorufin and only trace dearylation activity toward benzyloxyresorufin. Bioactivates 3-methylindole (3MI) by dehydrogenation to the putative electrophile 3-methylene-indolenine.

Cellular Location
Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

Tissue Location
Expressed in lung. Rarely detected in liver and placenta.

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CYP2F1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

CYP2F1 Antibody (Center) Blocking Peptide - Images

CYP2F1 Antibody (Center) Blocking Peptide - Background

CYP2F1 is 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 dehydrogenate 3-methylindole, an endogenous toxin derived from the fermentation of tryptophan, as well as xenobiotic substrates such as naphthalene and ethoxycoumarin.

CYP2F1 Antibody (Center) Blocking Peptide - References

Tournel,G., Xenobiotica 37 (12), 1433-1438 (2007)Tournel,G., Mutat. Res. 617 (1-2), 79-89 (2007)Nelson,D.R., Pharmacogenetics 14 (1), 1-18 (2004)