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CYP2A13 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP8649b

Specification

CYP2A13 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q16696

CYP2A13 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 1553

Other Names
Cytochrome P450 2A13, CYPIIA13, CYP2A13

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8649b was selected from the C-term region of human CYP2A13. 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.

CYP2A13 Antibody (C-term) Blocking Peptide - Protein Information

Name CYP2A13

Function
Exhibits a coumarin 7-hydroxylase activity. Active in the metabolic activation of hexamethylphosphoramide, N,N-dimethylaniline, 2'-methoxyacetophenone, N-nitrosomethylphenylamine, and the tobacco- specific carcinogen, 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone. Possesses phenacetin O-deethylation activity.

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

Tissue Location
Expressed in liver and a number of extrahepatic tissues, including nasal mucosa, lung, trachea, brain, mammary gland, prostate, testis, and uterus, but not in heart, kidney, bone marrow, colon,

small intestine, spleen, stomach, thymus, or skeletal muscle

CYP2A13 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

CYP2A13 Antibody (C-term) Blocking Peptide - Images

CYP2A13 Antibody (C-term) Blocking Peptide - Background

CYP2A13 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. Although its endogenous substrate has not been determined, it is known to metabolize 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone, a major nitrosamine specific to tobacco.

CYP2A13 Antibody (C-term) Blocking Peptide - References

Smith,G., et.al., Xenobiotica 28 (12), 1129-1165 (1998)Nelson,D.R., et.al., Pharmacogenetics 14 (1), 1-18 (2004)