

CYP2A6 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP8724a**Specification**

CYP2A6 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P11509](#)**CYP2A6 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 1548**Other Names**

Cytochrome P450 2A6, 11413-, 4-cineole 2-exo-monooxygenase, CYP11A6, Coumarin 7-hydroxylase, Cytochrome P450 IIA3, Cytochrome P450(I), CYP2A6, CYP2A3

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8724a](/products/AP8724a) was selected from the N-term region of human CYP2A6. 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.

CYP2A6 Antibody (N-term) Blocking Peptide - Protein Information**Name** CYP2A6**Synonyms** CYP2A3**Function**

Exhibits a high coumarin 7-hydroxylase activity. Can act in the hydroxylation of the anti-cancer drugs cyclophosphamide and ifosfamide. Competent in the metabolic activation of aflatoxin B1. Constitutes the major nicotine C-oxidase. Acts as a 1,4-cineole 2-exo- monooxygenase. Possesses low phenacetin O-deethylation activity.

Cellular Location

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

Tissue Location

Liver.

CYP2A6 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CYP2A6 Antibody (N-term) Blocking Peptide - Images**CYP2A6 Antibody (N-term) Blocking Peptide - Background**

CYP2A6 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 its expression is induced by phenobarbital. The enzyme is known to hydroxylate coumarin, and also metabolizes nicotine, aflatoxin B1, nitrosamines, and some pharmaceuticals.

CYP2A6 Antibody (N-term) Blocking Peptide - References

Maurice,M., et.al., Eur. J. Biochem. 200 (2), 511-517 (1991)Yun,C.H., et.al., Mol. Pharmacol. 40 (5), 679-685 (1991)