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CYP4F12 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP7895b

Specification

CYP4F12 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9HCS2

CYP4F12 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 66002

Other Names
Cytochrome P450 4F12, CYPIVF12, CYP4F12

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7895b was selected from the C-term region of human CYP4F12. 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.

CYP4F12 Antibody (C-term) Blocking Peptide - Protein Information

Name CYP4F12 {ECO:0000303|PubMed:16112640, ECO:0000312|HGNC:HGNC:18857}

Function
A cytochrome P450 monooxygenase involved in the metabolism of endogenous polyunsaturated fatty acids (PUFAs). 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 (CPR; NADPH-ferrihemoprotein reductase). Catalyzes the hydroxylation of carbon hydrogen bonds, with preference for omega-2 position. Metabolizes (5Z,8Z,11Z,14Z)- eicosatetraenoic acid (arachidonate) toward 18-hydroxy arachidonate (PubMed:11162607). Catalyzes the epoxidation of double bonds of PUFAs such as docosapentaenoic and docosahexaenoic acids (PubMed:16112640). Has low omega-hydroxylase activity toward leukotriene B4 and arachidonate (PubMed:11162645). Involved in the metabolism of xenobiotics. Catalyzes the

hydroxylation of the antihistamine drug ebastine (PubMed:11162645).

Cellular Location
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9HBI6}. Microsome membrane {ECO:0000250|UniProtKB:Q9HBI6}

Tissue Location
Expressed in small intestine, liver, colon and heart.

CYP4F12 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

CYP4F12 Antibody (C-term) Blocking Peptide - Images

CYP4F12 Antibody (C-term) Blocking Peptide - Background

CYP4F12 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 likely localizes to the endoplasmic reticulum.

CYP4F12 Antibody (C-term) Blocking Peptide - References

Dhar,M., J. Lipid Res. 49 (3), 612-624 (2008)Stark,K., Arch. Biochem. Biophys. 441 (2), 174-181 (2005)Nelson,D.R., Pharmacogenetics 14 (1), 1-18 (2004)