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CYP4F12 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7895b

Specification

CYP4F12 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q9HCS2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**60309**
Antigen Region	**473-503**

CYP4F12 Antibody (C-term) - Additional Information

Gene ID 66002

Other Names
Cytochrome P450 4F12, CYPIVF12, CYP4F12

Target/Specificity
This CYP4F12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 473-503 amino acids from the C-terminal region of human CYP4F12.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CYP4F12 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CYP4F12 Antibody (C-term) - 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}

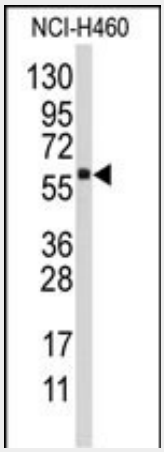
Tissue Location
Expressed in small intestine, liver, colon and heart.

CYP4F12 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CYP4F12 Antibody (C-term) - Images



Western blot analysis of anti-CYP4F12 Antibody (C-term) (Cat.#AP7895b) in NCI-H460 cell line lysates (35ug/lane). CYP4F12(arrow) was detected using the purified Pab.

CYP4F12 Antibody (C-term) - 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.

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CYP4F12 Antibody (C-term) - 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)