

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, CYP4F12, CYPIV12, 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

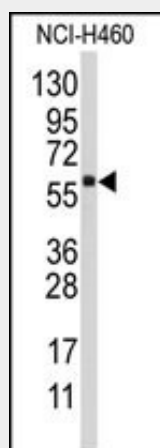
Expressed in small intestine, liver, colon and heart.

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 Cytometry](#)
- [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.

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)