



Mouse anti-Human CYP4F3 monoclonal antibody, clone 5F22 (CABT-B10060)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	CYP4F3 (NP_000887, 100 a.a. ~ 199 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Human
Clone	5F22
Conjugate	Unconjugated
Applications	WB,sELISA,ELISA
Sequence Similarities	RIFHPTYIKPVLFAPAAIVPKDKVVFYSFLKPWLGDGLLLSAGEKWSRHRRLTPAFHFNI LKPYMKIFNESVNIMHAKWQLLASEGSARLDMFEHISLM*
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	This gene, CYP4F3, encodes 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. The enzyme starts the process of inactivating and degrading leukotriene B4, a potent mediator of inflammation. This gene is part of a cluster of cytochrome P450 genes on chromosome 19. Another member of this family, CYP4F8, is approximately 18 kb away. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]

Keywords	CYP4F3; cytochrome P450, family 4, subfamily F, polypeptide 3; CPF3; CYP4F; LTB4H; docosahexaenoic acid omega-hydroxylase CYP4F3; CYPIVF3; 20-HETE synthase; cytochrome P-450; cytochrome P450 4F3; cytochrome P450-LTB-omega; leukotriene-B4 20-monooxygenase; leukotriene B4 omega hydroxylase; leukotriene-B(4) 20-monooxygenase 2; leukotriene-B(4) omega-hydroxylase 2; 20-hydroxyeicosatetraenoic acid synthase; cytochrome P450, subfamily IVF, polypeptide 3 (leukotriene B4 omega hydroxylase);
-----------------	--

GENE INFORMATION

Entrez Gene ID	4051
UniProt ID	Q08477
Pathway	Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Eicosanoids, organism-specific biosystem; Metabolic pathways, organism-specific biosystem
Function	electron carrier activity; heme binding; leukotriene-B4 20-monooxygenase activity; metal ion binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen; oxygen binding
