Datasheet for ABIN7653007

anti-Cytochrome P450 antibody (C-Term) (CF®568)

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Overview

Quantity:	100 µL
Target:	Cytochrome P450 (CYP)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cytochrome P450 antibody is conjugated to CF®568
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp))

Product Details

Purpose:	Cytochrome p450(M12P4H2), CF568 conjugate
Immunogen:	Ovalbumin-conjugated synthetic peptide HIGFGCIPPR (C-terminal sequence)
Clone:	M12P4H2
Isotype:	IgG1, kappa
Characteristics:	This gene 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 and is induced by ethanol, the diabetic state, and starvation. The enzyme metabolizes both endogenous substrates, such as ethanol, acetone, and acetal, as well as exogenous substrates including benzene, carbon tetrachloride, ethylene glycol, and

Product Details

	nitrosamines, which are pre-mutagens found in cigarette smoke. Due to its many substrates, this enzyme may be involved in such varied processes as gluconeogenesis, hepatic cirrhosis, diabetes, and cancer. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Target Details

Target:	Cytochrome P450 (CYP)
Alternative Name:	Cytochrome p450
Background:	Synonyms: 4-nitrophenol 2-hydroxylase, CPE1, CYP2Ecytochrome P450 2E1, CYPIIE1, cytochrome P450, family 2, subfamily E, polypeptide 1, cytochrome P450, subfamily IIE (ethanol-inducible), polypeptide 1 , Cytochrome P450-J, EC 1.14.13, EC 1.14.13.n7, EC 1.14.14.1, flavoprotein-linked monooxygenase, microsomal monooxygenase, P450C2E, P450-J, xenobiotic monooxygenase Gene Symbol: CYP2E1
Molecular Weight:	~50-55 kDa
Gene ID:	1571
UniProt:	P05181
Pathways:	Steroid Hormone Biosynthesis, C21-Steroid Hormone Metabolic Process

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Positive Control: HepG2 cells. Liver.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.1 mg/mL
Buffer:	PBS, 0.1 % BSA, 0.05 % azide

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Protect from light
Storage:	4 °C
Storage Comment:	Stable at room temperature or 37°C for 7 days. Protect from light Store at 2 to 8°C. Protect fluorescent conjugates from light
Expiry Date:	24 months