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anti-CYP1A2 antibody (AA 221-320)

2 Images



Publication



Go to Product page

Overview

Quantity:	100 μL
	OVPIAG
Target:	CYP1A2
Binding Specificity:	AA 221-320
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYP1A2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-
	embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)),
	Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen
	Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Cytochrome P450 1A2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	CYP1A2
Alternative Name:	Cytochrome P450 1A2 (CYP1A2 Products)

Target Details

Background:	Synonyms: CP12, P3-450, P450(PA), Cytochrome P450 1A2, CYPIA2, Cytochrome P(3)450,
	Cytochrome P450 4, Cytochrome P450-P3, CYP1A2
	Background: Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver
	microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It
	oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and
	xenobiotics. Most active in catalyzing 2-hydroxylation. Caffeine is metabolized primarily by
	cytochrome CYP1A2 in the liver through an initial N3-demethylation. Also acts in the
	metabolism of aflatoxin B1 and acetaminophen. Participates in the bioactivation of
	carcinogenic aromatic and heterocyclic amines. Catalizes the N-hydroxylation of heterocyclic
	amines and the O-deethylation of phenacetin.
Gene ID:	1544
UniProt:	P05177
Application Details	
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be
	handled by trained staff only.
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4 °C,-20 °C

Storage:

Handling

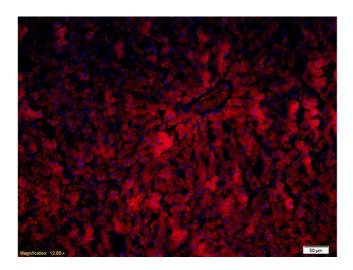
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

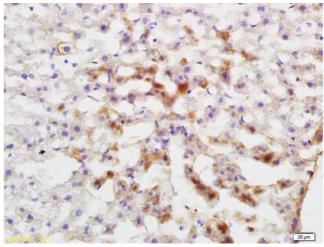
Huang, Duan, Zhao, Gao, Niu, Xu, Li: "Reduction of Aflatoxin B1 Toxicity by Lactobacillus plantarum C88: A Potential Probiotic Strain Isolated from Chinese Traditional Fermented Food "Tofu"." in: **PLoS ONE**, Vol. 12, Issue 1, pp. e0170109, (2017) (PubMed).

Images



Immunofluorescence

Image 1. Formalin-fixed and paraffin embedded rat liver labeled with Anti-P450 1A2/CYP1A2 Polyclonal Antibody, Unconjugated (ABIN742470) followed by conjugation to the secondary antibody and DAPI staining



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat liver labeled with Anti-P450 1A2/CYP1A2 Polyclonal Antibody, Unconjugated (ABIN742470) at 1:200 followed by conjugation to the secondary antibody and DAB staining