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anti-CYP4V2 antibody (Internal Region)

3 Images



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Overview

Quantity:	100 μL
Target:	CYP4V2
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYP4V2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

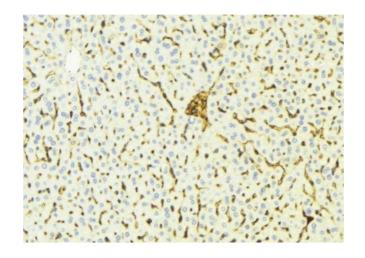
Immunogen:	A synthesized peptide derived from human Cytochrome P450 4V2, corresponding to a region within the internal amino acids.
Isotype:	IgG
Specificity:	Cytochrome P450 4V2 Antibody detects endogenous levels of total Cytochrome P450 4V2.
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:	CYP4V2
Alternative Name:	CYP4V2 (CYP4V2 Products)

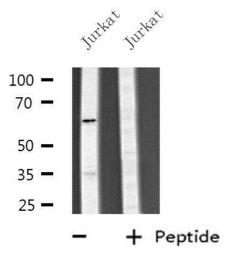
Target Details

Background:	Description: Omega-hydroxylase that oxidizes medium-chain saturated fatty acids and
	polyunsaturated omega-3 fatty acids, and which plays a role in fatty acid and steroid
	metabolism in the eye (PubMed:19661213, PubMed:22772592). Catalyzes the omega-
	hydroxylation of medium-chain saturated fatty acids such as laurate, myristate and palmitate in
	an NADPH-dependent pathway. The substrate specificity is higher for myristate > laurate >
	palmitate (C14>C16>C12) (PubMed:19661213). Acts as a polyunsaturated omega-3 fatty acids
	hydroxylase by mediating oxidation of docosahexaenoate (DHA) to 22-
	hydroxydocosahexaenoate (PubMed:22772592). Also produces some 21-
	hydroxydocosahexaenoate. Also converts eicosapentaenoate (EPA) to 20-
	hydroxyeicosapentaenoate (20-OH-EPA) (PubMed:22772592).
	Gene: CYP4V2
Molecular Weight:	61 kDa
Gene ID:	285440
UniProt:	Q6ZWL3
Application Details	
Application Notes:	WB 1:500-1:1000, IHC: 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %
	glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months



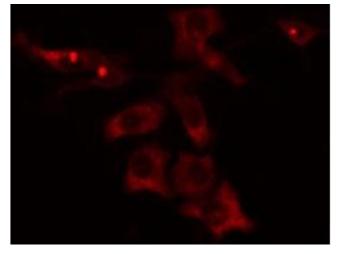
Immunohistochemistry

Image 1. ABIN6275808 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at $22_i\tilde{a}C$. An HRP conjugated goat anti-rabbit antibody was used as the secondary



Western Blotting

Image 2. Western blot analysis of extracts from Jurkat cells, using CYP4V2 antibody.



Immunofluorescence (fixed cells)

Image 3. ABIN6275808 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25¡ãC. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37¡ãC. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.# S0006), diluted at 1/600, was used as secondary antibod