10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Cytochrome P450 2A6 Antibody

Catalog # AP59997

Product Information

Application	WB, IF/IC
Primary Accession	P11509
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56517

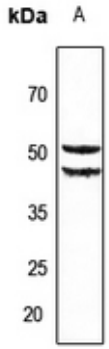
Additional Information

Gene ID	1548
Other Names	CYP2A3; Cytochrome P450 2A6; 1, 4-cineole 2-exo-monooxygenase; CYPIIA6; Coumarin 7-hydroxylase; Cytochrome P450 IIA3; Cytochrome P450(I)
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Cytochrome P450 2A6. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

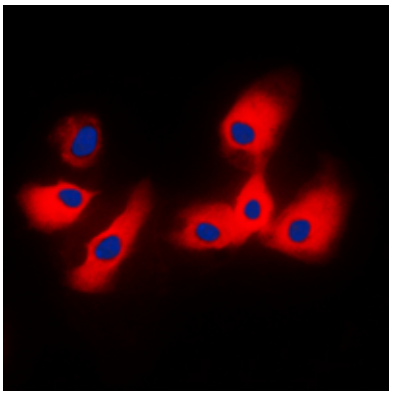
Protein Information

Name	CYP2A6
Synonyms	CYP2A3
Function	Exhibits a high coumarin 7-hydroxylase activity. Can act in the hydroxylation of the anti-cancer drugs cyclophosphamide, ifosphamide and tegafur. Competent in the metabolic activation of aflatoxin B1. Constitutes the major nicotine C-oxidase. Acts as a 1,4- cineole 2-exo-monooxygenase. Possesses low phenacetin O-deethylation activity.
Cellular Location	Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein
Tissue Location	Liver.

Images



Western blot analysis of Cytochrome P450 2A6 expression in rat liver (A) whole cell lysates. (Predicted band size: 56 kD; Observed band size: 50 kD)



Immunofluorescent analysis of Cytochrome P450 2A6 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.