

Immunotag™ CYP1B1 Antibody

Antibody Specification	
Catalog No.	ITA6480
Product Description	Immunotag™ CYP1B1 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	CYP1B1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,IF/ICC,ELISA
Recommended Dilution	WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human CYP1B1
Specificity	CYP1B1 Antibody detects endogenous levels of total CYP1B1
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	CYP1B1
Accession No.	Q16678
Alternate Names	Aryl hydrocarbon hydroxylase; CP1B; CP1B1_HUMAN; Cyp1b1; CYPIB1; Cytochrome P450 1B1; Cytochrome P450 family 1 subfamily B polypeptide 1; Cytochrome P450 subfamily I (dioxin inducible) polypeptide 1 (glaucoma 3 primary infantile); Flavoprotein linked monooxygenase; GLC3A; Microsomal monooxygenase; P4501B1; Xenobiotic monooxygenase;

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Description	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, retinoid and xenobiotics. Preferentially oxidizes 17beta-estradiol to the carcinogenic 4-hydroxy derivative, and a variety of procarcinogenic compounds to their activated forms, including polycyclic aromatic hydrocarbons. Promotes angiogenesis by removing cellular oxygenation products, thereby decreasing oxidative stress, release of antiangiogenic factor THBS2, then allowing endothelial cells migration, cell adhesion and capillary morphogenesis. These changes are concomitant with the endothelial nitric oxide synthase activity and nitric oxide synthesis. Plays an important role in the regulation of perivascular cell proliferation, migration, and survival through modulation of the intracellular oxidative state and NF-kappa-B expression and/or activity, during angiogenesis. Contributes to oxidative homeostasis and ultrastructural organization and function of trabecular meshwork tissue through modulation of POSTN expression.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	61kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.