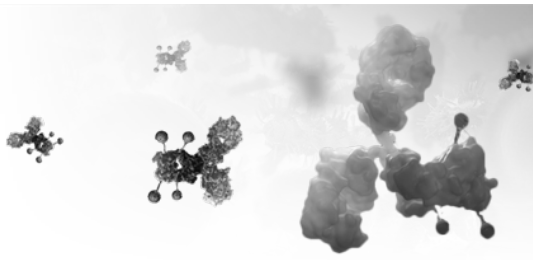

Anti-CYP1A2 (aa 211-310) polyclonal antibody (DPAB-DC681)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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. The protein encoded by this gene localizes to the endoplasmic reticulum and its expression is induced by some polycyclic aromatic hydrocarbons (PAHs), some of which are found in cigarette smoke. The enzymes endogenous substrate is unknown; however, it is able to metabolize some PAHs to carcinogenic intermediates. Other xenobiotic substrates for this enzyme include caffeine, aflatoxin B1, and acetaminophen. The transcript from this gene contains four Alu sequences flanked by direct repeats in the 3 untranslated region.
Immunogen	CYP1A2 (NP_000752, 211 a.a. ~ 310 a.a) partial recombinant protein with GST tag. The sequence is ESSDEMLSLVKNTHEFVETASSGNPLDFFPILRYLPNPALQRFKAFNQRFLWFLQKTVQE HYQDFDKNSVRDITGALFKHSKKGPRASGNLIPQEKIVNL
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Cell lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

GENE INFORMATION

Gene Name	CYP1A2 cytochrome P450, family 1, subfamily A, polypeptide 2 [Homo sapiens (human)]
Official Symbol	CYP1A2
Synonyms	CYP1A2; cytochrome P450, family 1, subfamily A, polypeptide 2; CP12; P3-450; P450(PA); cytochrome P450 1A2; CYPIA2; P450 form 4; cytochrome P450 4; cytochrome P(3)450; cytochrome P450-P3; dioxin-inducible P3-450; microsomal monooxygenase; xenobiotic monooxygenase; aryl hydrocarbon hydroxylase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 2;
Entrez Gene ID	1544
Protein Refseq	NP_000752
UniProt ID	P05177
Chromosome Location	15q24.1
Pathway	Aflatoxin B1 metabolism; Arachidonic acid metabolism; Arylamine metabolism; Caffeine metabolism
Function	aromatase activity; caffeine oxidase activity; demethylase activity; electron carrier activity

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