



Anti-Cytochrome P450 1A1 + 1A2 monoclonal antibody, clone ND2 (DCABH-333)

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

PRODUCT INFORMATION

Product Overview	Mouse monoclonal to Cytochrome P450 1A1 + 1A2
Antigen Description	Cytochrome P450 oxidase (commonly abbreviated CYP) is a generic term for a large number of related, but distinct, oxidative enzymes important in vertebrate physiology. The cytochrome P450 mixed-function monooxygenase system is probably the most important element of Phase I metabolism in mammals. P450s are membrane-bound, either in the inner membrane of mitochondria or in the endoplasmic reticulum of cells where they metabolise thousands of endogenous and exogenous compounds. In the liver, these substrates include toxins, drugs, and other unneeded and potentially harmful molecules. Humans have 18 families of cytochrome P450 genes and 43 subfamilies; the CYP1 family is involved in drug metabolism and includes 3 subfamilies, 3 genes and 1 pseudogene.
Immunogen	3-methylcholanthrene induced Rat Cytochrome P450 1A1 + 1A2.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Mouse, Human
Clone	ND2
Conjugate	Unconjugated
Applications	WB, IHC-P, ICC/IF
Format	Liquid
Size	100 µl
Buffer	Preservative: 0.05% Sodium azide

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Storage	store at -20°C. Avoid freeze / thaw cycles.
Ship	Shipped at 4°C.

GENE INFORMATION

Gene Name	Cyp1a1 cytochrome P450, family 1, subfamily a, polypeptide 1 [Rattus norvegicus]
Official Symbol	Cyp1a1
Synonyms	CYP1A1; cytochrome P450, family 1, subfamily a, polypeptide 1; cytochrome P450 1A1; CYP1A1; P450MT2; P450form6; dioxin-inducible; cytochrome P1-450; cytochrome P450-C; cytochrome P450MT2; cytochrome P450, 1a1; microsomal monooxygenase; xenobiotic monooxyg
Entrez Gene ID	24296
Protein Refseq	NP_036672
UniProt ID	P00185
Pathway	Biological oxidations, organism-specific biosystem; Cytochrome P45 - arranged by substrate type, organism-specific biosystem; Fatty Acid Omega Oxidation, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of xenobiotics by cytochrome P45, organism-specific biosystem; Metabolism of xenobiotics by cytochrome P45, conserved biosystem.
Function	aromatase activity; catalytic activity; demethylase activity; electron carrier activity; enzyme binding; enzyme binding; flavonoid 3-monooxygenase activity; heme binding; metal ion binding; monooxygenase activity; monooxygenase activity; oxidoreductase ac