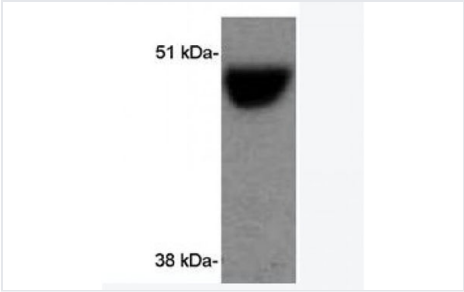
CYP2A6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CYP2A6, Polyclonal Antibody
Full Product Name	CYP2A6 antibody
Product Gene Name	anti-CYP2A6 antibody
Product Synonym Names	Polyclonal CYP2A6; Anti-CYP2A6; Cytochrome P450 2A6; Cytochrome P-450; Cytochrome P450; Cytochrome P 450
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified IgG supplied in PBS with 1 mg/ml BSA and 0.05% NaN3.
Concentration	1.0 mg/ml (lot specific)
Specificity	Human
Preparation and Storage	Aliquot and store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	56,501 Da
OMIM	122720
3D Structure	ModBase 3D Structure for P11509
Cross-Reactivity	Human, mouse, rat
Biohazard Information	This product contains sodium azide as preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.
Immunogen	CYP2A6 antibody was raised in rabbit using purified, histidine-tagged, full length human P450 2A6 fusion protein as the immunogen.
Product Categories/Family for anti-CYP2A6 antibody	Proteases; Inhibitors; & Enzymes
Applications Tested/Suitable for anti-CYP2A6 antibody	Western Blot (WB)
Application Notes for anti-CYP2A6 antibody	WB: 1:2,000
Related Product Information for anti-CYP2A6 antibody	MBS534977 is an antibody targeting CYP2A6. Also known as CYP2A6 antibody. Reactive in Human. Host: Rabbit. Rabbit polyclonal CYP2A6 antibody
Other Notes	Small volumes of anti-CYP2A6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CYP2A6 antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP2A6. It may not necessarily be applicable to this product.

NCBI GI #	189339233
NCBI GeneID	1548
NCBI Accession #	NP_000753
UniProt Primary Accession #	P11509
UniProt Secondary Accession #	P00190; P10890; Q16803; Q4VAT9; Q4VAU0; Q4VAU1; Q9H1Z7; Q9UCU0; Q9UK48; A7YAE5; B2R7F6
UniProt Related Accession #	P11509
GenBank Nucleotide #	NM_000762.5
NCBI Official Full Name	cytochrome P450 2A6
NCBI Official Synonym Full Names	cytochrome P450, family 2, subfamily A, polypeptide 6
NCBI Official Symbol	CYP2A6
NCBI Official Synonym Symbols	CPA6; CYP2A; CYP2A3; P450PB; CYPIIA6; P450C2A
UniProt Protein Name	Cytochrome P450 2A6
UniProt Synonym Protein Names	1,4-cineole 2-exo-monooxygenase; CYPIIA6; Coumarin 7-hydroxylase; Cytochrome P450 IIA3; Cytochrome P450(I)
Protein Family	Cytochrome
UniProt Gene Name	CYP2A6
UniProt Synonym Gene Names	CYP2A3
UniProt Entry Name	CP2A6_HUMAN
NCBI Protein Information	cytochrome P450 2A6
NCBI Summary for CYP2A6	This gene, CYP2A6, 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. This protein localizes to the endoplasmic reticulum and its expression is induced by phenobarbital. The enzyme is known to hydroxylate coumarin, and also metabolizes nicotine, aflatoxin B1, nitrosamines, and some pharmaceuticals. Individuals with certain allelic variants are said to have a poor metabolizer phenotype, meaning they do not efficiently metabolize coumarin or nicotine. This gene is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. The gene was formerly referred to as CYP2A3; however, it has been renamed CYP2A6. [provided by RefSeq, Jul 2008]

UniProt Comments for CYP2A6	CYP2A6: Exhibits a high coumarin 7-hydroxylase activity. Can act in the hydroxylation of the anti-cancer drugs cyclophosphamide and ifosphamide. 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. Belongs to the cytochrome P450 family. Protein type: Oxidoreductase; Secondary Metabolites Metabolism - caffeine; EC 1.14.14.1; Cofactor and Vitamin Metabolism - retinol; Endoplasmic reticulum; Xenobiotic Metabolism - drug metabolism - other enzymes; Xenobiotic Metabolism - drug metabolism - cytochrome P450 Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: endoplasmic reticulum membrane; intracellular membrane-bound organelle; cytoplasmic microtubule Molecular Function: coumarin 7-hydroxylase activity; enzyme binding; iron ion binding; heme binding; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen; arachidonic acid epoxygenase activity; steroid hydroxylase activity; oxygen binding Biological Process: steroid metabolic process; coumarin metabolic process; xenobiotic metabolic process; coumarin catabolic process; exogenous drug catabolic process; epoxygenase P450 pathway; drug metabolic process Disease: Tobacco Addiction, Susceptibility To; Lung Cancer; Coumarin Resistance
Research Articles on CYP2A6	**1.** Genetic variation in CYP2A6 protein influence smoking behaviors to carbon monoxide level.
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