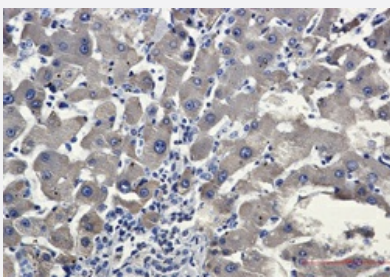


RecomAb™

CYP2D6 recombinant monoclonal antibody, clone R07-3G8

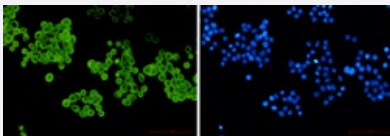
Catalog # RAB01280 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry analysis of paraffin-embedded liver cancer using CYP2D6 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunocytochemistry

Immunocytochemistry analysis of CYP2D6 (green) in HeLa using CYP2D6 antibody, and DAPI (blue)

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CYP2D6.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human CYP2D6.
Theoretical MW (kDa)	Calculated MW: 56 kD
Reactivity	Human
Form	Liquid

Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Frozen sections) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) Immunocytochemistry Immunofluorescence Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C. For longer storage, aliquot and store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
Immunohistochemistry analysis of paraffin-embedded liver cancer using CYP2D6 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.
- Immunohistochemistry (Frozen sections)
- Immunocytochemistry
Immunocytochemistry analysis of CYP2D6 (green) in Hela using CYP2D6 antibody, and DAPI (blue)
- Immunofluorescence

Gene Info — CYP2D6

Entrez GeneID	1565
Protein Accession#	P10635
Gene Name	CYP2D6
Gene Alias	CPD6, CYP2D, CYP2D@, CYP2DL1, MGC120389, MGC120390, P450-DB1, P450C2D, P450 DB1

Gene Description	cytochrome P450, family 2, subfamily D, polypeptide 6
Omim ID	124030
Gene Ontology	Hyperlink
Gene Summary	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. This protein localizes to the endoplasmic reticulum and is known to metabolize as many as 20% of commonly prescribed drugs. Its substrates include debrisoquine, an adrenergic-blocking drug; sparteine and propafenone, both anti-arrhythmic drugs; and amitriptyline, an anti-depressant. The gene is highly polymorphic in the population; certain alleles result in the poor metabolizer phenotype, characterized by a decreased ability to metabolize the enzyme's substrates. The gene is located near two cytochrome P450 pseudogenes on chromosome 22q13.1. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	cytochrome P450 2D6 cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing), polypeptide 6 cytochrome P450, subfamily IID (debrisoquine, sparteine, etc., -metabolizing)-like 1 debrisoquine 4-hydroxylase flavoprotein-linked monooxygenase

Pathway

- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Drug metabolism - cytochrome P450](#)

Disease

- [Abortion](#)
- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Agranulocytosis](#)
- [Akathisia](#)
- [Alcohol-Related Disorders](#)
- [Alzheimer disease](#)
- [Amphetamine-Related Disorders](#)

- [Anemia](#)
- [Anxiety Disorders](#)
- [Apnea](#)
- [Arrhythmia](#)
- [Arthritis](#)
- [Asthma](#)
- [Atrial Fibrillation](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Balkan Nephropathy](#)
- [Basal Ganglia Diseases](#)
- [Birth Weight](#)
- [Bone Neoplasms](#)
- [Bradycardia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Child Behavior Disorders](#)
- [Child Development Disorders](#)
- [Chromosome Aberrations](#)
- [Chromosome Deletion](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colitis](#)

- [Colorectal Neoplasms](#)
- [Connective Tissue Diseases](#)
- [Consciousness](#)
- [Coronary Artery Disease](#)
- [Critical Illness](#)
- [Crohn Disease](#)
- [Cues](#)
- [Dementia](#)
- [Depression](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Disorders of Excessive Somnolence](#)
- [DNA Damage](#)
- [Drug Toxicity](#)
- [Drug-Induced Liver Injury](#)
- [Ductus Arteriosus](#)
- [Dyskinesia](#)
- [Dyskinesias](#)
- [Dysmenorrhea](#)
- [Dysthymic Disorder](#)
- [Edema](#)
- [Epilepsy](#)
- [Fatigue](#)

- [Fetal Diseases](#)
- [Gastrointestinal Diseases](#)
- [Gastroparesis](#)
- [Genetic Predisposition to Disease](#)
- [Genetics](#)
- [Glaucoma](#)
- [Head and Neck Neoplasms](#)
- [Heart Failure](#)
- [Hepatitis C](#)
- [Heroin Dependence](#)
- [HIV Infections](#)
- [Hot Flashes](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hypertension](#)
- [Hyponatremia](#)
- [Infant](#)
- [Infection](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Laryngeal Neoplasms](#)
- [Leukemia](#)
- [Lewy Body Disease](#)
- [Lichen Planus](#)

- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Long QT syndrome](#)
- [Low Back Pain](#)
- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Macular Degeneration](#)
- [Manganese Poisoning](#)
- [Mental Disorders](#)
- [Metabolic Syndrome X](#)
- [Mood Disorders](#)
- [Motor Neuron Disease](#)
- [Mouth Neoplasms](#)
- [Multiple Chemical Sensitivity](#)
- [Multiple Sclerosis](#)
- [Muscular Diseases](#)
- [Musculoskeletal Diseases](#)
- [Nausea](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Nerve Degeneration](#)
- [Neuroleptic Malignant Syndrome](#)
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- [Occupational Diseases](#)
- [Opioid-Related Disorders](#)
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- [Pain Threshold](#)
- [Parkinson disease](#)
- [Parkinsonian Disorders](#)
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- [Pituitary Neoplasms](#)
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- [Postoperative Nausea and Vomiting](#)
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- [Pregnancy Complications](#)
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- [Psychomotor Agitation](#)
- [Psychomotor Performance](#)
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- [Psychotic Disorders](#)
- [Pulmonary Disease](#)
- [Recurrence](#)
- [Respiratory Tract Infections](#)
- [Respiratory Tract Neoplasms](#)
- [Rhinitis](#)
- [Satiation](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Scleroderma](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Spondylitis](#)
- [Stomach Neoplasms](#)
- [Substance Withdrawal Syndrome](#)
- [Substance-Related Disorders](#)
- [Syndrome](#)
- [Tachycardia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)

- [Urticaria](#)
- [Uterine Cervical Neoplasms](#)
- [Ventricular Premature Complexes](#)
- [Vomiting](#)
- [Weight Gain](#)
- [Werner syndrome](#)