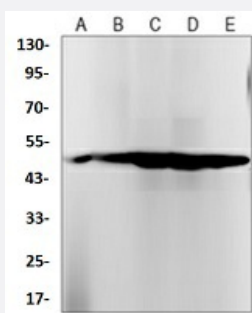


RecomAb™

CYP2D6 recombinant monoclonal antibody

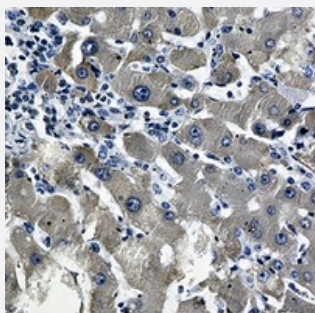
Catalog # RAB02584 Size 100 uL

Applications



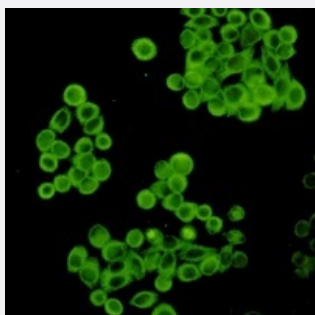
Western Blot (Cell lysate)

Western blot analysis of HeLa (A), A549 (B), HL60 (C), U251 (D), U87MG (E) whole cell lysates with CYP2D6 recombinant monoclonal antibody (Cat # RAB02584).



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

Immunohistochemical analysis of human liver cancer formalin fixed paraffin embedded tissue section using CYP2D6 recombinant monoclonal antibody (Cat # RAB02584). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.73). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence

Immunofluorescent analysis of HeLa cells with CYP2D6 recombinant monoclonal antibody (Cat # RAB02584). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CYP2D6.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein of human CYP2D6.
Theoretical MW (kDa)	50
Reactivity	Human
Specificity	Recognizes endogenous levels of Cytochrome P450 2D6 protein.
Form	Liquid
Purification	Immunogen affinity chromatography
Isotype	IgG
Recommend Usage	Immunocytochemistry (1:50-1:100) Immunofluorescence (1:50-1:100) Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000)
Storage Buffer	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of HeLa (A), A549 (B), HL60 (C), U251 (D), U87MG (E) whole cell lysates with CYP2D6 recombinant monoclonal antibody (Cat # RAB02584).

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

Immunohistochemical analysis of human liver cancer formalin fixed paraffin embedded tissue section using CYP2D6 recombinant monoclonal antibody (Cat # RAB02584). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.73). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

- Immunocytochemistry
- Immunofluorescence

Immunofluorescent analysis of HeLa cells with CYP2D6 recombinant monoclonal antibody (Cat # RAB02584). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

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 monooxygen

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](#)
- [Obstetric Labor](#)
- [Occupational Diseases](#)
- [Opioid-Related Disorders](#)
- [Osteoarthritis](#)
- [Osteoporosis](#)
- [Otorhinolaryngologic Neoplasms](#)
- [Overdose](#)
- [Pain](#)
- [Pain Threshold](#)
- [Parkinson disease](#)
- [Parkinsonian Disorders](#)
- [Personality Assessment](#)
- [Personality Inventory](#)
- [Pituitary Neoplasms](#)
- [Poisoning](#)
- [Polycystic Ovary Syndrome](#)

- [Porphyria](#)
- [Porphyrias](#)
- [Postoperative Complications](#)
- [Postoperative Nausea and Vomiting](#)
- [Precancerous Conditions](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psychiatric Status Rating Scales](#)
- [Psychiatry](#)
- [Psychomotor Agitation](#)
- [Psychomotor Performance](#)
- [Psychophysiologic Disorders](#)
- [Psychoses](#)
- [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](#)