

RecomAb™

ABCB1 recombinant monoclonal antibody, clone R02-6B2

Catalog # RAB02038 Size 100 uL

Applications



Western Blot

Western blot analysis of HeLa lysates with ABCB1 recombinant monoclonal antibody, clone R02-6B2 (Cat # RAB02038).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human ABCB1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human ABCB1.
Theoretical MW (kDa)	Calculated MW: 141 k
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1:500-1:1000) 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 -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

Western blot analysis of Hela lysates with ABCB1 recombinant monoclonal antibody, clone R02-6B2 (Cat # RAB02038).

Gene Info — ABCB1

Entrez GeneID[5243](#)**Protein Accession#**[P08183](#)**Gene Name**

ABCB1

Gene Alias

ABC20, CD243, CLCS, GP170, MDR1, MGC163296, P-GP, PGY1

Gene Description

ATP-binding cassette, sub-family B (MDR/TAP), member 1

Omim ID[171050](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The protein encoded by this gene is an ATP-dependent drug efflux pump for xenobiotic compounds with broad substrate specificity. It is responsible for decreased drug accumulation in multidrug-resistant cells and often mediates the development of resistance to anticancer drugs. This protein also functions as a transporter in the blood-brain barrier. [provided by RefSeq]

Other Designations

ATP-binding cassette, subfamily B, member 1|P-glycoprotein 1|P-glycoprotein 1|colchicin sensitivity|doxorubicin resistance|multidrug resistance 1|multidrug resistance protein 1

Pathway

- [ABC transporters](#)

Disease

- [Acquired Immunodeficiency Syndrome](#)
- [Acute Disease](#)
- [Addison Disease](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Alcoholism](#)
- [Alzheimer disease](#)
- [Amnesia](#)
- [Anemia](#)
- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Bipolar Disorder](#)
- [Birth Weight](#)
- [Body Weight](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Central Nervous System Diseases](#)

- [Central Nervous System Neoplasms](#)
- [Child Development Disorders](#)
- [Cholangitis](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cognition Disorders](#)
- [Colitis](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Coronary Restenosis](#)
- [Crohn Disease](#)
- [Cystadenocarcinoma](#)
- [Cystic fibrosis](#)
- [Delayed Graft Function](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diarrhea](#)
- [Disease Progression](#)
- [Drug Toxicity](#)
- [Drug-Induced Liver Injury](#)
- [Duodenal Ulcer](#)

- [Dyskinesia](#)
- [Dyslipidemias](#)
- [Edema](#)
- [Encephalomyelitis](#)
- [Endometrial Neoplasms](#)
- [Epilepsies](#)
- [Epilepsy](#)
- [Esophageal Neoplasms](#)
- [Familial Mediterranean fever](#)
- [Femur Head Necrosis](#)
- [Gastritis](#)
- [Gastroesophageal Reflux](#)
- [Gastrointestinal Diseases](#)
- [Gastrointestinal Stromal Tumors](#)
- [Gastroparesis](#)
- [Genetic Predisposition to Disease](#)
- [Gilbert Disease](#)
- [Gingival Hyperplasia](#)
- [Gingival Overgrowth](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Graft vs Host Disease](#)
- [Graves Disease](#)
- [Hashimoto Disease](#)
- [Head and Neck Neoplasms](#)
- [Helicobacter Infections](#)

- [Hematologic Diseases](#)
- [Hemophilia A](#)
- [Hemorrhage](#)
- [Hepatitis B](#)
- [Heroin Dependence](#)
- [HIV Infections](#)
- [HIV Seropositivity](#)
- [Hyperbilirubinemia](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hyperlipoproteinemia Type II](#)
- [Hypertension](#)
- [Hyperthyroidism](#)
- [Hyponatremia](#)
- [Hypotension](#)
- [Hypothyroidism](#)
- [Infection](#)
- [Infertility](#)
- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Leukemia](#)
- [Leukopenia](#)
- [Liver Cirrhosis](#)

- [Liver Diseases](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lupus Nephritis](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malaria](#)
- [Marijuana Abuse](#)
- [Mental Disorders](#)
- [Mental Status Schedule](#)
- [Metabolic Syndrome X](#)
- [Microsatellite Instability](#)
- [Miosis](#)
- [Mood Disorders](#)
- [Movement Disorders](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Myasthenia Gravis](#)
- [Myocardial Infarction](#)
- [Nasopharyngeal Neoplasms](#)
- [Nausea](#)
- [Neoplasm](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)

- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neovascularization](#)
- [Nephrotic Syndrome](#)
- [Nervous System Diseases](#)
- [Neuropsychological Tests](#)
- [Neurotoxicity Syndromes](#)
- [Neutropenia](#)
- [Obesity](#)
- [Opioid-Related Disorders](#)
- [Opportunistic Infections](#)
- [Osteonecrosis](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pain](#)
- [Pain Threshold](#)
- [Pancreatitis](#)
- [Parkinson disease](#)
- [Peptic Ulcer](#)
- [Peripheral Nervous System Diseases](#)
- [Postoperative Complications](#)
- [Postoperative Nausea and Vomiting](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pruritus](#)

- [Psychiatric Status Rating Scales](#)
- [Psychomotor Performance](#)
- [Psychotic Disorders](#)
- [Pulmonary Disease](#)
- [Recurrence](#)
- [Respiratory Distress Syndrome](#)
- [Respiratory Insufficiency](#)
- [Retinal Diseases](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Sclerosis](#)
- [Skin Neoplasms](#)
- [Sleep](#)
- [Sleep Stages](#)
- [Stomach Neoplasms](#)
- [Stomach Ulcer](#)
- [Stroke](#)
- [Thrombocytopenia](#)
- [Tobacco Use Disorder](#)
- [Tremor](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)
- [Urogenital Neoplasms](#)
- [Urologic Neoplasms](#)
- [Vasculitis](#)
- [Vision Disorders](#)

- [Vomiting](#)
- [Water Intoxication](#)
- [Weight Gain](#)
- [Werner syndrome](#)