

CYP3A4 rabbit monoclonal antibody

Catalog # H00001576-K

Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human CYP3A4 peptide using ARM Technology.
Immunogen	A synthetic peptide of human CYP3A4 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human CYP3A4 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) ₂ , IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

Gene Info — CYP3A4

Entrez GeneID	1576
GeneBank Accession#	CYP3A4
Gene Name	CYP3A4
Gene Alias	CP33, CP34, CYP3A, CYP3A3, HLP, MGC126680, NF-25, P450C3, P450PCN1
Gene Description	cytochrome P450, family 3, subfamily A, polypeptide 4
Omim ID	124010
Gene Ontology	Hyperlink
Gene Summary	This gene, CYP3A4, 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 glucocorticoids and some pharmacological agents. This enzyme is involved in the metabolism of approximately half the drugs which are used today, including acetaminophen, codeine, cyclosporin A, diazepam and erythromycin. The enzyme also metabolizes some steroids and carcinogens. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Previously another CYP3A gene, CYP3A3, was thought to exist; however, it is now thought that this sequence represents a transcript variant of CYP3A4. [provided by RefSeq]
Other Designations	P450-III, steroid inducible cytochrome P450, subfamily IIIA (nifedipine oxidase), polypeptide 3 cytochrome P450, subfamily IIIA (nifedipine oxidase), polypeptide 4 cytochrome P450, subfamily IIIA, polypeptide 4 glucocorticoid-inducible P450 nifedipine o

Pathway

- [Drug metabolism - cytochrome P450](#)
- [Drug metabolism - other enzymes](#)
- [gamma-Hexachlorocyclohexane degradation](#)
- [Linoleic acid metabolism](#)
- [Metabolic pathways](#)
- [Metabolism of xenobiotics by cytochrome P450](#)

- [Retinol metabolism](#)

Disease

- [Acquired Immunodeficiency Syndrome](#)
- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Akathisia](#)
- [Anemia](#)
- [Asthma](#)
- [Balkan Nephropathy](#)
- [Body Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Central Nervous System Diseases](#)
- [Cholestasis](#)
- [Chronic Disease](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Diarrhea](#)
- [Disease Progression](#)

- [Disease Susceptibility](#)
- [Drug Hypersensitivity](#)
- [Drug Toxicity](#)
- [Drug-Induced Liver Injury](#)
- [Dyskinesia](#)
- [Dyslipidemias](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Epidermal Necrolysis](#)
- [Epilepsy](#)
- [Esophageal Neoplasms](#)
- [Exanthema](#)
- [Femur Head Necrosis](#)
- [Gastritis](#)
- [Gastrointestinal Stromal Tumors](#)
- [Genetic Predisposition to Disease](#)
- [Gilbert Disease](#)
- [Glomerulonephritis](#)
- [Head and Neck Neoplasms](#)
- [Helicobacter Infections](#)
- [Hepatitis](#)
- [Hepatitis C](#)
- [Heroin Dependence](#)
- [HIV Infections](#)
- [HIV Seropositivity](#)

- [Hodgkin Disease](#)
- [Hyperbilirubinemia](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hypertension](#)
- [Hypopharyngeal Neoplasms](#)
- [Inflammation](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Laryngeal Neoplasms](#)
- [Leukemia](#)
- [Leukopenia](#)
- [Liver Cirrhosis](#)
- [Liver Failure](#)
- [Liver Neoplasms](#)
- [Long QT syndrome](#)
- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Malaria](#)
- [Metabolic Syndrome X](#)
- [Migraine Disorders](#)
- [Mouth Neoplasms](#)
- [Multiple Myeloma](#)
- [Muscular Diseases](#)

- [Myelodysplastic Syndromes](#)
- [Myocardial Infarction](#)
- [Nasopharyngeal Neoplasms](#)
- [Nausea](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasms](#)
- [Neutropenia](#)
- [Obesity](#)
- [Occupational Diseases](#)
- [Oligospermia](#)
- [Opioid-Related Disorders](#)
- [Osteonecrosis](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Pain](#)
- [Peptic Ulcer](#)
- [Pharyngeal Neoplasms](#)
- [Poisoning](#)
- [Polycystic Ovary Syndrome](#)
- [Precancerous Conditions](#)
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- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)

- [Prostatic Neoplasms](#)
- [Psychiatric Status Rating Scales](#)
- [Puberty](#)
- [Recurrence](#)
- [Satiation](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Skin Neoplasms](#)
- [Stevens-Johnson Syndrome](#)
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- [Testicular Neoplasms](#)
- [Thrombocytopenia](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Urogenital Neoplasms](#)
- [Vomiting](#)