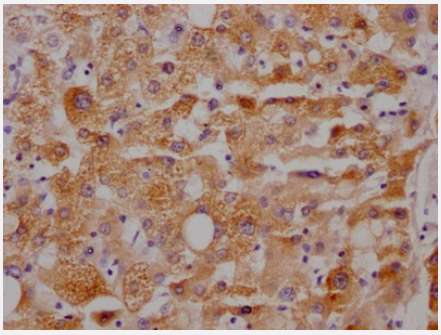
RecomAb™ Sm Size

# CYP3A4 recombinant monoclonal antibody, clone 10B10

Catalog # RAB08263 Size 50 uL

## Applications



### Immunohistochemistry

Immunohistochemistry image of CYP3A4 recombinant monoclonal antibody, clone 10B10 diluted at 1:100 and staining in paraffin-embedded human liver tissue performed on a Leica Bond™ system.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human CYP3A4. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant protein corresponding to full length human CYP3A4. |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Affinity chromatography |
| **Isotype** | IgG |
| **Recommend Usage** | ELISA<br>Immunohistochemistry (1:50-1:200)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide) |

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| | |
|---|---|
| **Storage Instruction** | Store at -20 °C or -80 °C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry

  Immunohistochemistry image of CYP3A4 recombinant monoclonal antibody, clone 10B10 diluted at 1:100 and staining in paraffin-embedded human liver tissue performed on a Leica Bond™ system.

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — CYP3A4

| | |
|---|---|
| **Entrez GeneID** | 1576 |
| **Protein Accession#** | P08684 |
| **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 cyt ochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug met abolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endopl asmic reticulum and its expression is induced by glucocorticoids and some pharmacological age nts. This enzyme is involved in the metabolism of approximately half the drugs which are are used today, including acetaminophen, codeine, cyclosporin A, diazepam and erythromycin. The enzym e also metabolizes some steroids and carcinogens. This gene is part of a cluster of cytochrome P 450 genes on chromosome 7q21.1. Previously another CYP3A gene, CYP3A3, was thought to ex ist; however, it is now thought that this sequence represents a transcript variant of CYP3A4. [provi ded by RefSeq |
| **Other Designations** | P450-III, steroid inducible\|cytochrome P450, subfamily IIIA (niphedipine oxidase), polypeptide 3\|cy tochrome P450, subfamily IIIA (niphedipine oxidase), polypeptide 4\|cytochrome P450, subfamily II IA, polypeptide 4\|glucocorticoid-inducible P450\|nifedipine o |

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## 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

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- 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

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- 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

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- 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

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- Peptic Ulcer
- Pharyngeal Neoplasms
- Poisoning
- Polycystic Ovary Syndrome
- Precancerous Conditions
- Pregnancy Complications
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Psychiatric Status Rating Scales
- Puberty
- Recurrence
- Satiation
- Schizophrenia
- Schizophrenic Psychology
- Skin Neoplasms
- Stevens-Johnson Syndrome
- Stomach Neoplasms
- Testicular Neoplasms
- Thrombocytopenia
- Thrombophilia
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Urogenital Neoplasms
- Vomiting

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