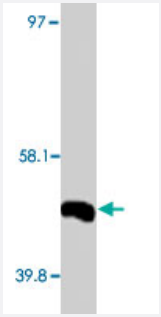
CYP3A5 monoclonal antibody, clone F18 P3 B6

Catalog # MAB1859 Size 200 ug

Applications



Western Blot (Recombinant protein)

Western blot analysis using CYP3A5 monoclonal antibody, clone F18 P3 B6 (Cat # MAB1859) on recombinant CYP3A5 proteins.

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of CYP3A5.
Immunogen	A synthetic peptide corresponding to C-terminus of human CYP3A5.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG1
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (1-2 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1-5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.08% sodium azide)
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 shoul d be handled by trained staff only.

Applications

- Western Blot (Recombinant protein)

  Western blot analysis using CYP3A5 monoclonal antibody, clone F18 P3 B6 (Cat # MAB1859) on recombinant CYP3A5 proteins.

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

- Enzyme-linked Immunoabsorbent Assay

Gene Info — CYP3A5

Entrez GeneID	1577
Gene Name	CYP3A5
Gene Alias	CP35, P450PCN3, PCN3
Gene Description	cytochrome P450, family 3, subfamily A, polypeptide 5
Omim ID	145500 605325
Gene Ontology	Hyperlink
Gene Summary	This gene,CYP3A5, 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. The enzyme metabolizes drugs such as nifedipine and cyclosporine as well as the steroid hor mones testosterone, progesterone and androstenedione. This gene is part of a cluster of cytochro me P450 genes on chromosome 7q21.1. This cluster includes a pseudogene, CYP3A5P1, which is very similar to CYP3A5. This similarity has caused some difficulty in determining whether clone d sequences represent the gene or the pseudogene. [provided by RefSeq
Other Designations	aryl hydrocarbon hydroxylase|cytochrome P-450|cytochrome P450, subfamily IIIA (niphedipine oxi dase), polypeptide 5|flavoprotein-linked monooxygenase|microsomal monooxygenase|niphedipin e oxidase|xenobiotic monooxygenase

Publication Reference

- Effect of polymorphic CYP3A5 genotype on the single-dose simvastatin pharmacokinetics in healthy subjects.

  Kim KA, Park PW, Lee OJ, Kang DK, Park JY.

  Journal of Clinical Pharmacology 2007 Jan; 47(1):87.

- Cytochrome p450 profile of colorectal cancer: identification of markers of prognosis.

  Kumarakulasingham M, Rooney PH, Dundas SR, Telfer C, Melvin WT, Curran S, Murray GI.

  Clinical Cancer Research 2005 May; 11(10):3758.

  Application: IHC, WB-Ti, Human, Human colorectal cancer

- Contribution of CYP3A5 to hepatic and renal ifosfamide N-dechloroethylation.

  McCune JS, Risler LJ, Phillips BR, Thummel KE, Blough D, Shen DD.

  Drug Metabolism and Disposition 2005 Jul; 33(7):1074.

  Application: WB-Ti, Human, Liver

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

- Anemia
- Atherosclerosis
- Balkan Nephropathy
- Body Weight
- Breast cancer
- Breast Neoplasms
- Cadaver
- Carcinoma
- Cardiovascular Diseases
- Central Nervous System Diseases
- Colon cancer
- Colorectal Neoplasms
- Coronary Artery Disease
- Coronary Disease
- Diabetes Mellitus
- Diarrhea
- Disease Progression
- DNA Damage
- Drug Toxicity
- Drug-Induced Liver Injury
- Dyskinesia
- Edema
- Epilepsy
- Esophageal Neoplasms
- Exanthema
- Gastrointestinal Stromal Tumors

- Genetic Predisposition to Disease
- Gilbert Disease
- Head and Neck Neoplasms
- Hemorrhage
- Hepatitis
- Hepatitis B
- HIV Infections
- Hot Flashes
- Hyperbilirubinemia
- Hypercholesterolemia
- Hyperlipidemias
- Hypertension
- Hypertrophy
- Inflammation
- Kidney Diseases
- Kidney Failure
- Kidney Neoplasms
- Leukemia
- Leukopenia
- Liver Neoplasms
- Lung carcinoma
- Lung Neoplasms
- Lupus Nephritis
- Lymphatic Metastasis
- Lymphoma
- Macular Degeneration

- Malaria
- Mental Disorders
- Miosis
- Multiple Chemical Sensitivity
- Multiple Myeloma
- Muscular Diseases
- Myelodysplastic Syndromes
- Myocardial Infarction
- Nasopharyngeal Neoplasms
- Neoplasm Recurrence
- Neoplasms
- Neovascularization
- Neutropenia
- Opioid-Related Disorders
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Postoperative Complications
- Precancerous Conditions
- Pregnancy Complications
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Psychiatric Status Rating Scales
- Psychomotor Performance
- Psychotic Disorders

- Pulmonary Disease
- Recurrence
- Schizophrenia
- Skin Neoplasms
- Stomach Neoplasms
- Stroke
- Taste
- Testicular Neoplasms
- Thrombosis
- Urinary Bladder Neoplasms
- Urogenital Neoplasms
- Urologic Neoplasms