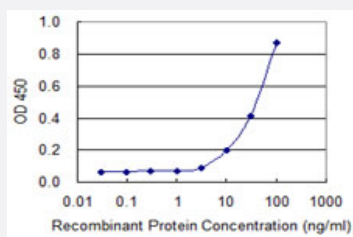


CYP2A6 monoclonal antibody (M01), clone 3B11

Catalog # H00001548-M01

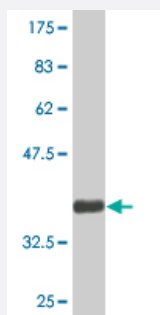
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CYP2A6 is 3 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant CYP2A6.

Immunogen

CYP2A6 (AAH28215, 395 a.a. ~ 494 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence

LGSVLRDPSFFSNPQDFNPQHFLNEKGQFKKSDAFVPFSIGKRNCFGEGGLARMELFLFFTVMQ
NFRLLKSSQSPKDIDVSPKHVGFATIPRNYTMSFLPR

Host

Mouse

Reactivity

Human

Isotype

IgG2a Kappa

Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CYP2A6 is 3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — CYP2A6

Entrez GeneID	1548
GeneBank Accession#	NG_000008
Protein Accession#	AAH28215
Gene Name	CYP2A6
Gene Alias	CPA6, CYP2A, CYP2A3, P450C2A, P450PB
Gene Description	cytochrome P450, family 2, subfamily A, polypeptide 6
Omim ID	122700 122720 188890 211980
Gene Ontology	Hyperlink

Gene Summary

This gene, CYP2A6, 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 phenobarbital. The enzyme is known to hydroxylate coumarin, and also metabolizes nicotine, aflatoxin B1, nitrosamines, and some pharmaceuticals. Individuals with certain allelic variants are said to have a poor metabolizer phenotype, meaning they do not efficiently metabolize coumarin or nicotine. This gene is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. The gene was formerly referred to as CYP2A3; however, it has been renamed CYP2A6. [provided by RefSeq]

Other Designations

coumarin 7-hydroxylase|cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 3|cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 6|flavoprotein-linked monooxygenase|xenobiotic monooxygenase

Pathway

- [Caffeine metabolism](#)
- [Drug metabolism - cytochrome P450](#)
- [Drug metabolism - other enzymes](#)
- [Metabolic pathways](#)
- [Retinol metabolism](#)

Disease

- [Adenocarcinoma](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Carcinoma](#)
- [Cell Transformation](#)
- [Cocarcinogenesis](#)
- [Colorectal Neoplasms](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [DNA Damage](#)

- [Drug Toxicity](#)
- [Epilepsy](#)
- [Esophageal Neoplasms](#)
- [Fetal Growth Retardation](#)
- [Genetic Predisposition to Disease](#)
- [Genetics](#)
- [Genomic Instability](#)
- [Growth Disorders](#)
- [Head and Neck Neoplasms](#)
- [HIV Infections](#)
- [Impulse Control Disorders](#)
- [Insomnia](#)
- [Kidney Failure](#)
- [Laryngeal Neoplasms](#)
- [Liver Diseases](#)
- [Liver Neoplasms](#)
- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Mesothelioma](#)
- [Mouth Neoplasms](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)
- [Ovarian cancer](#)

- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Papillomavirus Infections](#)
- [Personality Tests](#)
- [Pharyngeal Neoplasms](#)
- [Pleural Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Pregnancy Complications](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Stomach Neoplasms](#)
- [Substance Withdrawal Syndrome](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Venous Insufficiency](#)