10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# CYP2D6 Antibody (monoclonal) (M07)

**Mouse monoclonal antibody raised against a partial recombinant CYP2D6.**
**Catalog # AT1703a**

## Specification

### CYP2D6 Antibody (monoclonal) (M07) - Product Information

| | |
|---|---|
| Application | **E** |
| Primary Accession | P10635 |
| Other Accession | NG_003180 |
| Reactivity | **Human** |
| Host | **mouse** |
| Clonality | **Monoclonal** |
| Isotype | **IgG2a Kappa** |
| Calculated MW | **55769** |

### CYP2D6 Antibody (monoclonal) (M07) - Additional Information

**Gene ID** 1565

**Other Names**
Cytochrome P450 2D6, CYPIID6, Cytochrome P450-DB1, Debrisoquine 4-hydroxylase, CYP2D6, CYP2DL1

**Target/Specificity**
CYP2D6 (NP_000097, 91 a.a. ~ 190 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**
E~~N/A

**Format**
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**
CYP2D6 Antibody (monoclonal) (M07) is for research use only and not for use in diagnostic or therapeutic procedures.

### CYP2D6 Antibody (monoclonal) (M07) - Protocols

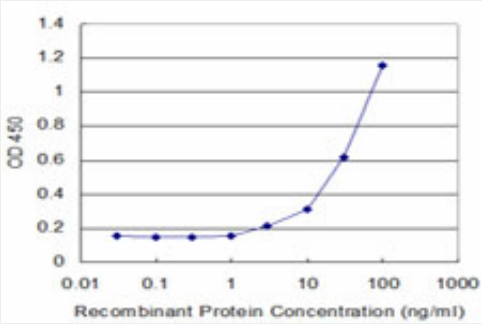
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

**CYP2D6 Antibody (monoclonal) (M07) - Images**




Detection limit for recombinant GST tagged CYP2D6 is approximately 3ng/ml as a capture antibody.

**CYP2D6 Antibody (monoclonal) (M07) - Background**

This gene 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 is known to metabolize as many as 20% of commonly prescribed drugs. Its substrates include debrisoquine, an adrenergic-blocking drug; sparteine and propafenone, both anti-arrythmic drugs; and amitryptiline, an anti-depressant. The gene is highly polymorphic in the population; certain alleles result in the poor metabolizer phenotype, characterized by a decreased ability to metabolize the enzyme's substrates. The gene is located near two cytochrome P450 pseudogenes on chromosome 22q13.1. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]