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

Product Information

Application	E
Primary Accession	P10635
Other Accession	NG_003180
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2C5
Calculated MW	55769

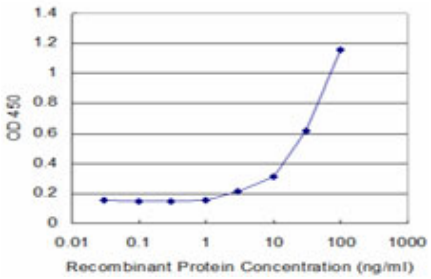
Additional Information

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.

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]

Images



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