CYP2D6 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	CYP2D6, Polyclonal Antibody
Full Product Name	CYP2D6 Polyclonal Antibody
Product Gene Name	anti-CYP2D6 antibody
Clonality	Polyclonal
Molecular Weight	50,061 Da
OMIM	124030
3D Structure	ModBase 3D Structure for P10635
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-CYP2D6 antibody	MBS8522195 is an antibody targeting CYP2D6. Also known as CYP2D6 Polyclonal Antibody.
Other Notes	Small volumes of anti-CYP2D6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP2D6. It may not necessarily be applicable to this product.

NCBI GI #	392513721
NCBI GeneID	1565
NCBI Accession #	NP_000097.3
UniProt Primary Accession #	P10635
UniProt Secondary Accession #	Q16752; Q2XND6; Q2XND7; Q2XNE0; Q6B012; Q6NXU8
UniProt Related Accession #	P10635
GenBank Nucleotide #	NM_000106.5
NCBI Official Full Name	cytochrome P450 2D6 isoform 1
NCBI Official Synonym Full Names	cytochrome P450 family 2 subfamily D member 6
NCBI Official Symbol	CYP2D6
NCBI Official Synonym Symbols	CPD6; CYP2D; CYP2DL1; CYPIID6; P450C2D; P450DB1; CYP2D7AP; CYP2D7BP; CYP2D7P2; CYP2D8P2; P450-DB1
UniProt Protein Name	Cytochrome P450 2D6
UniProt Synonym Protein Names	CYPIID6; Cholesterol 25-hydroxylase
Protein Family	Cytochrome
UniProt Gene Name	CYP2D6
UniProt Synonym Gene Names	CYP2DL1
NCBI Protein Information	cytochrome P450 2D6

NCBI Summary for CYP2D6	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 25% of commonly prescribed drugs. Its substrates include antidepressants, antipsychotics, analgesics and antitussives, beta adrenergic blocking agents, antiarrythmics and antiemetics. The gene is highly polymorphic in the human population; certain alleles result in the poor metabolizer phenotype, characterized by a decreased ability to metabolize the enzyme's substrates. Some individuals with the poor metabolizer phenotype have no functional protein since they carry 2 null alleles whereas in other individuals the gene is absent. This gene can vary in copy number and individuals with the ultrarapid metabolizer phenotype can have 3 or more active copies of the gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]
UniProt Comments for CYP2D6	Responsible for the metabolism of many drugs and environmental chemicals that it oxidizes. It is involved in the metabolism of drugs such as antiarrhythmics, adrenoceptor antagonists, and tricyclic antidepressants.
Research Articles on CYP2D6	**1.** The study results indicated the good response pattern was influenced by the concentration of donepezil, but not by APOE and CYP2D6 polymorphisms.
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