

Product datasheet for **TA346157**

Cytochrome P450 2D6 (CYP2D6) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB, IHC
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-CYP2D6 antibody: synthetic peptide directed towards the N terminal of human CYP2D6. Synthetic peptide located within the following region: RPPVPITQILGFGPRSQGVFLARYGPAWREQRFRFSVSTLRNLGLGKKSLE
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	55 kDa
Gene Name:	cytochrome P450 family 2 subfamily D member 6
Database Link:	NP_000097 Entrez Gene 1565 Human P10635



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Background:

CYP2D6 is 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-arrhythmic drugs; and amitriptyline, an anti-depressant. 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-arrhythmic drugs; and amitriptyline, 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.

Synonyms:

CPD6; CYP2D; CYP2D7AP; CYP2D7BP; CYP2D7P2; CYP2D8P2; CYP2DL1; CYP11D6; P450-DB1; P450C2D; P450DB1

Note:

Immunogen Sequence Homology: Rat: 100%; Human: 100%; Pig: 93%; Horse: 93%; Mouse: 93%; Rabbit: 93%; Zebrafish: 92%; Bovine: 91%; Sheep: 86%; Guinea pig: 86%; Dog: 79%

Protein Families:

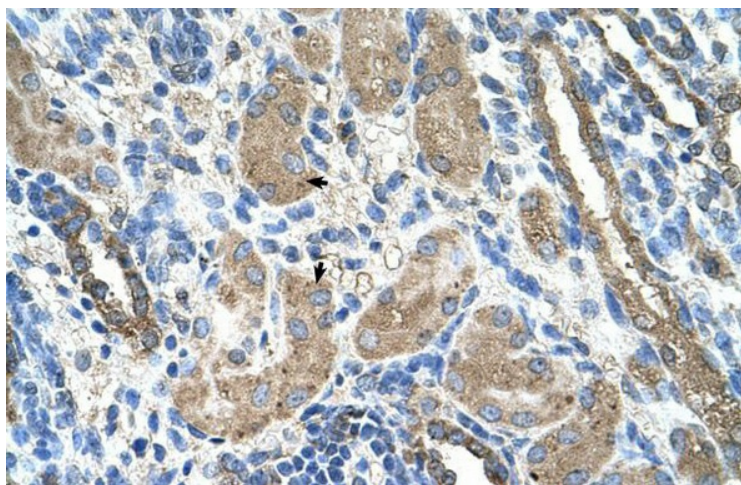
Druggable Genome, P450, Transmembrane

Protein Pathways:

Drug metabolism - cytochrome P450

Product images:

WB Suggested Anti-CYP2D6 Antibody Titration:
2.5 ug/ml; Positive Control: Human Liver



Rabbit Anti-CYP2D6 Antibody; Paraffin Embedded Tissue: Human Kidney; Cellular Data: Epithelial cells of renal tubule; Antibody Concentration: 4.0-8.0 ug/ml; Magnification: 400X