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Datasheet for ABIN1512811 anti-CYP2D6 antibody (AA 20-230)





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Quantity:	100 μg	
Target:	CYP2D6	
Binding Specificity:	AA 20-230	
Reactivity:	Human	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This CYP2D6 antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (IHC)	
Product Details		
lmmunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 20-230 of human CYP2D6 (NP_000097.3).	
Sequence:	VDLMHRRQRW AARYPPGPLP LPGLGNLLHV DFQNTPYCFD QLRRRFGDVF SLQLAWTPVV VLNGLAAVRE ALVTHGEDTA DRPPVPITQI LGFGPRSQGV FLARYGPAWR EQRRFSVSTL RNLGLGKKSL EQWVTEEAAC LCAAFANHSG RPFRPNGLLD KAVSNVIASL TCGRRFEYDD PRFLRLLDLA QEGLKEESGF LREVLNAVPV L	
Isotype:	IgG	
Cross-Reactivity:	Human, Mouse, Rat	
Characteristics:	Polyclonal Antibodies	
Purification:	Affinity purification	

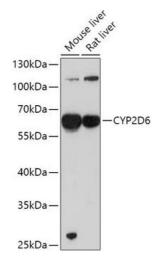
Target Details

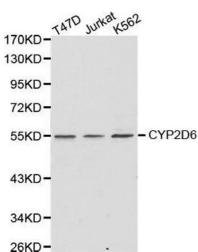
Target:	CYP2D6	
Alternative Name:	CYP2D6 (CYP2D6 Products)	
Background:	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome	
	P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism	
	and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic	
	reticulum and is known to metabolize as many as 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.,CYP2D6,CPD6,CYP2D,CYP2D7AP,CYP2D7BP,CYP2D7P2,CYP2D8P2,CYP2DL1,CYPIID6,P450	
	DB1,P450C2D,P450DB1,Cancer,Signal Transduction,Endocrine & Metabolism,Mitochondrial	
	metabolism,Cytochromes,Lipid Metabolism,Cytochromes,Lipases,Drug	
	metabolism,Cardiovascular,Lipids,CYP2D6	
Molecular Weight:	50 kDa/55 kDa	
Gene ID:	1565	
UniProt:	P10635	
Application Details		
Application Notes:	WB,1:100 - 1:500,IHC,1:20 - 1:100	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	
	should be handled by trained staff only.	

Handling

Handling Advice:	Avoid freeze / thaw cycles	
Storage:	-20 °C	
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.	

Images





Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using CYP2D6 antibody (ABIN1512811, ABIN3021880, ABIN3021882 and ABIN6216807) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.

Western Blotting

Image 2.