-20C

CYP2D6 (D5A6X) Rabbit mAb





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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #P10635	Entrez-Gene Id: 1565		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	CYP2D6 (D5A6X) Rabbi	2D6 (D5A6X) Rabbit mAb recognizes endogenous levels of total CYP2D6 protein.					
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val408 of human CYP2D6 protein.						
Background	eferences	Cytochrome P450 2D6 (CYP2D6) is a member of the cytochrome P450 superfamily of enzymes. CYP2D6 is located in the endoplasmic reticulum where it oxidizes substrates such as drugs and environmental chemicals (1,2). CYP2D6 metabolizes more than 25% of current commonly used drugs including antidepressants, antipsychotics, analgesics, beta-adrenergic blocking agents, antiarrythmics, and antiemetics. The <i>CYP2D6</i> gene is highly polymorphic in humans, resulting in phenotypes that vary from poor metabolizer to super metabolizer. A patient's CYP2D6 genotype was shown to be a good predictor of drug response and side effects and is thus used to guide treatments (3-5). Although abundantly expressed in liver, CYP2D6 is also expressed in other organs including brain. In brain, CYP2D6 functions as a neuroprotective enzyme that increases with age and is induced by nicotine and alcohol (9,10). 1. Kimura, S. et al. (1989) <i>Am J Hum Genet</i> 45, 889-904. 2. Rowland, P. et al. (2006) <i>J Biol Chem</i> 281, 7614-22. 3. Ellingrod, V.L. et al. (2014) <i>Rom J Morphol Embryol</i> 55, 877-84. 5. Liu, M. et al. (2001) <i>J Neurochem</i> 82, 1376-87. 7. Howard, L.A. et al. (2003) <i>Br J Pharmacol</i> 138, 1376-86. 8. Miksys, S. et al. (2003) <i>Neuropharmacology</i> 45, 122-32. 9. Mann, A. and Tyndale, R.F. (2010) <i>Eur J Neurosci</i> 31, 1185-93. 10. Mann, A. et al. (2012) <i>Neurobiol Aging</i> 33, 2160-71.						
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat						
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