Store at -20C

719

CYP1A2 (D2V7S) Mouse mAb 3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Cell Signaling

877-616-CELL (2355) orders@cellsignal.com

877-678-TECH (8324)

info@cellsignal.com cellsignal.com

H.

Orders:

Support:

Web:



Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Mouse IgG1	UniProt ID: #P05177	Entrez-Gene Id: 1544
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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/Sensitivity		CYP1A2 (D2V7S) Mouse mAb recognizes endogenous levels of total CYP1A2 protein. This antibody does not cross-react with CYP1A1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with 3-methylcholanthrene-induced rat liver microsomal fractions.				
Background		Cytochrome P450 (CY reduced and bound b P450s are found in m cytochrome P450s are in the biosynthesis of show that cytochrome family influencing the and responsible for th carcinogens (2, 5). CY osteoporosis (6). A me to increased cancer ri	P) is a family of enz y carbon monoxide itochondria and fun e found in endoplas essential molecules e P450s form variou eir catalytic activities ne breakdown of a v P1 enzymes, includi eta-analysis shows t isk (5).	ymes that contain a hem , maximally absorb light ction in the biosynthesis mic reticulum (1). Some s whereas others metabo s heteromeric complexe (2-4). CYP1A2 is in the e ariety of xenobiotic subs ng CYP1A2, have been ir hat a particular polymor	e group (1). These of of 450 nm (1). Type of essential molect type II cytochrome blize xenobiotics (1) s with other memb ndoplasmic reticulu stances and bioactiv nplicated in smokin phism in <i>CYP1A2</i> is	enzymes, when I cytochrome ules (1). Type II P450s play a role . Research studies ers of the P450 um of hepatocytes vation of ng-related potentially linked
Background References		1. Miller, W.L. (2012) <i>Sci Signal</i> 5, pt11. 2. Backes, W.L. and Kelley, R.W. (2003) <i>Pharmacol Ther</i> 98, 221-33. 3. Reed, J.R. et al. (2010) <i>J Biol Chem</i> 285, 8942-52. 4. Kelley, R.W. et al. (2006) <i>Biochemistry</i> 45, 15807-16. 5. Wang, H. et al. (2012) <i>BMC Cancer</i> 12, 528. 6. Iqbal, J. et al. (2013) <i>Proc Natl Acad Sci U S A</i> 110, 11115-20.				
Species Reactivi	ty	Species reactivity is d	etermined by testin	g in at least one approve	d application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key	y	W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				
		All other trademarks more information.	are the property of	heir respective owners.	Visit cellsignal.com	/trademarks for
Limited Uses		Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.				
		Products are labeled approved, cleared, or	with For Research U licensed by the FDA	se Only or a similar labe or other regulatory fore	ling statement and eign or domestic en	have not been tity, for any

purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.