4/18/24, 10:35 AM Revision 5

#72202 Store at -20C store at -20C mAp		Orders:	Signaling H N O L O G Y* 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com
For Research Use Only. Not for U		Lanc   Danvers   Massa	01030113   01923   03A
Applications: Reactiv WB, IP, IHC-P H	ity: Sensitivity: MW (kDa): Source/Isotype: Endogenous 170-220 Rabbit IgG	UniProt ID: #P33527	Entrez-Gene Id: 4363
Product Usage Information	<b>Application</b> Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin)	<b>Dilution</b> 1:1000 1:50 1:100 - 1:40	10
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. For a carrier free (BSA and azide free) version of this product see product #97760.		
Specificity / Sensitivity	MRP1/ABCC1 (D5C1X) Rabbit mAb recognizes endogenous levels of total MRP1 protein. This antibody does not cross-react with MRP2 and MRP3 proteins.		
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val273 of human MRP1 protein.		
Background	Multidrug resistance-associated protein 1 (MRP1/ABCC1) is a member of the MRP subfamily of ATP- binding cassette (ABC) transporters (1). MRP1/ABCC1 protein functions as an organic anion transporter. It has a broad range of substrates, including antineoplastic or therapeutic agents and the glutathione (GSH) conjugates of these compounds. MRP1/ABCC1 also transports physiological substrates such as folates, GSH and GSH disulfide (GSSG) conjugates of steroids, leukotrienes, and prostaglandins (2,3). Although MRP1/ABCC1 is generally expressed in normal tissue, upregulation of MRP1/ABCC1 has been found in a variety of solid tumors, including small cell lung cancer, breast cancer, and prostate cancer		
	(1,4,5). Research studies show that overexpression of MRP1// therapeutic agents from cancer cells and confers drug resistar show that elevated expression of MRP1/ABCC1 is a negative small cell lung cancer, as the level of MRP1/ABCC1 is predicti chemotherapeutic agents in those patients (6-10).	ice in those patients. Res prognostic marker for brea	earch studies also ast cancer and
Background References	<ol> <li>Cole, S.P. et al. (1992) <i>Science</i> 258, 1650-4.</li> <li>Pajic, M. et al. (2005) <i>Cancer Lett</i> 228, 241-6.</li> <li>Deeley, R.G. and Cole, S.P. (2006) <i>FEBS Lett</i> 580, 1103-11</li> <li>Atalay, C. et al. (2006) <i>Tumour Biol</i> 27, 309-18.</li> <li>Sánchez, C. et al. (2011) <i>Prostate</i> 71, 1810-7.</li> <li>Nooter, K. et al. (1997) <i>Br J Cancer</i> 76, 486-93.</li> <li>Hsia, T.C. et al. (2002) <i>Lung</i> 180, 173-9.</li> <li>Kuo, T.H. et al. (2003) <i>Nucl Med Biol</i> 30, 627-32.</li> <li>Sánchez, C. et al. (2013) <i>Ann Oncol</i> 24, 1513-25.</li> </ol>		
Species Reactivity	Species reactivity is determined by testing in at least one approved 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 Cross-Reactivity Key	WB: Western Blotting IP: Immunoprecipitation IHC-P: Immuno	histochemistry (Paraffin)	

4/18/24, 10:35 AM	<ul> <li>MRP1/ABCC1 (D5C1X) Rabbit mAb (#72202) Datasheet Without Images Cell Signaling Technology</li> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. SignalStain is a registered trademark of Cell Signaling Technology, Inc. XP is a registered trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.
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 with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, 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 any trademarks, trade names, logos, patent or copyright notices or markings, (d) use 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.