e at -20C	MPC1 (D2L9I) Rabbit mAb			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
462		Support:	877-678-TECH (8324)	
144		Web:	info@cellsignal.com cellsignal.com	
#	3 Tras	sk Lane   Danvers   Ma	ssachusetts   01923   USA	

For Research Lise Only	/ Not for Use i	n Diagnostic Procedures.
FUI RESEAICH USE UNI	. NULIULUSE II	II Diagnostic Frocedures.

Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 12	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #Q9Y5U8	Entrez-Gene Id: 51660	
Product Usage Information	We	plication estern Blotting munoprecipitation			<b>Dilution</b> 1:1000 1:50		
Storage		•		7.5), 150 mM NaCl, 100 not aliquot the antibody		erol and less than	
Specificity / Sensi		MPC1 (D2L9I) Rabbit mAb recognizes endogenous levels of total MPC1 protein. This antibody does not cross-react with MPC2 protein.					
Source / Purificat		noclonal antibody is p dues near the carbox		nunizing animals with a s Iman MPC1 protein.	synthetic peptide corre	sponding to	
Background	in th Two pyru pyru pyru Alte	ne citric acid cycle ger p inner mitochondrial r uvate carrier 2 (MPC2 uvate into mitochondri uvate transport and m red MPC1/MPC2 exp	nerate energy the membrane protect ), form a 150 kI ia (1,2). Mutatio ay result in laction pression or active	ct pyruvate into mitocho prough oxidative phosph eins, mitochondrial pyruv Da complex and are ess ns in the corresponding ic acidosis, developmen ity may result in significa eer cells (a.k.a., the War	orylation under aerobi vate carrier 1 (MPC1) a cential proteins in the fa <i>MPC1</i> gene are associ tal delay, and prematu ant metabolic disorders	c conditions (1,2). and mitochondrial acilitated transport of ciated with deficient re death (2,3).	
Background Refe	2. B 3. B	erzig, S. et al. (2012) ricker, D.K. et al. (201 rivet, M. et al. (2003) iray, L.R. et al. (2014)	L2) Science 337 Mol Genet Meta	, 96-100. ab 78, 186-92.			
Species Reactivit	y Spec	cies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buff		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 Key	WB	: Western Blotting IP:	Immunoprecipi	tation			
Cross-Reactivity	X: X:	<ul> <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	XP is All of	Cell Signaling Technology is a 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	follov cond	wing terms apply to Plitions that are in additions	roducts provide tion to, or differe	a writing signed by a leg d by CST, its affiliates of ent from, those containe tive of CST, are rejected	r its distributors. Any C d herein, unless separ	ustomer's terms and ately accepted in	
	appro	oved, cleared, or licer	nsed by the FDA	Use Only or a similar lab A or other regulatory fore ny diagnostic or therape	eign or domestic entity	, for any purpose.	

## MPC1 (D2L9I) Rabbit mAb (#14462) Datasheet Without Images Cell Signaling Technology

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.