Revision 1

For Research Use Only. Not for Use in Diagnostic Procedures.

e at -20C	MDH2 Antibody				
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
		Support:	877-678-TECH (8324)		
#8610		Web:	info@cellsignal.com cellsignal.com		
#8		3 Trask Lane Danvers Mas	sachusetts 01923 USA		

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 35	Source/Isotype: Rabbit	UniProt ID: #P40926	Entrez-Gene Id: 4191		
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 and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		MDH2 Antibody recognizes endogenous levels of total MDH2 protein.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human MDH2 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Malate dehydrogenase (MDH) is a key enzyme in the tricarboxylic acid cycle and malate/aspartate shuttle (1,2). MDH is widely expressed in organisms from most bacteria to all eukaryotes (2). The cytoplasmic MDH isoenzyme (cMDH or MDH1) primarily reduces oxaloacetate to malate in the malate/aspartate shuttle (1-3). The major function of the mitochondrial MDH isoenzyme (mMDH or MDH2) is to oxidize malate to oxaloacetate in the tricarboxylic acid cycle (1,2).						
Background References		1. Matsuda, T. et al. (2010) <i>J Pharmacol Sci</i> 112, 320-6. 2. Minárik, P. et al. (2002) <i>Gen Physiol Biophys</i> 21, 257-65. 3. Joh, T. et al. (1987) <i>J Biol Chem</i> 262, 15127-31.						
Species Reactiv	vity	Species reactivity is d	letermined by testin	ig in at least one approve	ed 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		W: Western Blotting						
Cross-Reactivity Key		H: Human M: Mouse R: Rat						
Trademarks and Patents		Cell Signaling Techno	ology is a trademark	of Cell Signaling Techno	logy, Inc.			
		All other trademarks more information.	are the property of	their respective owners.	Visit cellsignal.com	n/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.						
		approved, cleared, or purpose. Customer s any manner that con Customer as the end diagnostic, prophylac component) or other sell, license, loan, dou whether alone or in c	r licensed by the FD/ hall not use any Pro flicts with its labelin -user and solely for ctic or therapeutic p commercial purpos nate or otherwise tr combination with ot	Use Only or a similar labe A or other regulatory for duct for any diagnostic of g statement. Products sc research and developme urposes, or any purchase se, requires a separate lic ansfer or make available her materials, or use the fy, reverse engineer, deco	eign or domestic er or therapeutic purp old or licensed by C ent uses. Any use of e of Product for res cense from CST. Cus any Product to any Products to manuf	ntity, for any ose, or otherwise in ST are provided for f Product for cale (alone or as a stomer shall (a) not y third party, facture any		

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.