

## 1908

## MDH2 (D8Q5S) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 35	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P40926	Entrez-Gene Id: 4191
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 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		MDH2 (D8Q5S) Rabbit mAb recognizes endogenous levels of total MDH2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly306 of human MDH2 protein.				
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 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		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
Trademarks and Patents		Cell Signaling Technology is a 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.				
		approved, cleared, or purpose. Customer s any manner that con	· licensed by the FDA hall not use any Pro flicts with its labeling	se Only or a similar labe to or other regulatory for duct for any diagnostic o g statement. Products s research and developme	eign or domestic er or therapeutic purp old or licensed by C	ntity, for any ose, or otherwise in ST are provided 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.