

#8610 Store at -20°C

MDH2 Antibody



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

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|---------|-------------|-----------------|
| WB | H M R | Endogenous | 35 | Rabbit | #P40926 | 4191 |

| Product Usage Information | Application | Dilution |
|----------------------------------|---|----------|
| | Western Blotting | 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. | |

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|-------------------------------|---|
| 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 | WB: Western Blotting |
| Cross-Reactivity Key | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected |
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