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MDH2 Antibody

Store at -20C
#8610

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

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 35	Source/Isotype: Rabbit	UniProt ID: #P40926	Entrez-Gene Id: 4191
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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) *J Pharmacol Sci* 112, 320-6.
2. Minárik, P. et al. (2002) *Gen Physiol Biophys* 21, 257-65.
3. Joh, T. et al. (1987) *J Biol Chem* 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

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