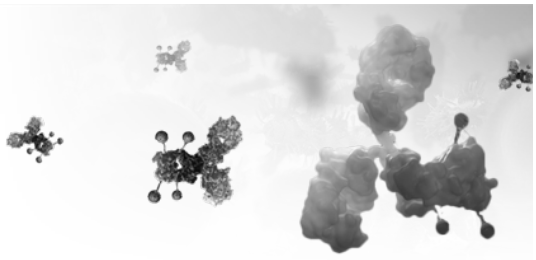

# Anti-MDH1 (full length) polyclonal antibody (DPAB-DC1909)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

| | |
|---|---|
| **Antigen Description** | Malate dehydrogenase catalyzes the reversible oxidation of malate to oxaloacetate, utilizing the NAD/NADH cofactor system in the citric acid cycle. The protein encoded by this gene is localized to the cytoplasm and may play pivotal roles in the malate-aspartate shuttle that operates in the metabolic coordination between cytosol and mitochondria. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.[provided by RefSeq, Nov 2010] |
| **Immunogen** | MDH1 (AAH01484.1, 1 a.a. ~ 334 a.a) full-length recombinant protein with GST tag. The sequence is MSEPIRVLVTGAAGQIAYSLLYSIGNGSVFGKDQPIILVLLDITPMMGVLDGVLMELQDC ALPLLKDVIATDKEDVAFKDLDVAILVGSMPRREGMERKDLLKANVKIFKSQGAALDKYA KKSVKVIVVGNPANTNCLTASKSAPSIPKENFSCLTRLDHNRAKAQIALKLGVTANDVKN VIIWGNHSSTQYPDVNHAKVKLQGKEVGVYEALKDDSWLKGEFVTTVQQRGAAVIKARKL SSAMSAAKAICDHVRDIWFGTPEGEFVSMGVISDGNSYGVPDDLLYSFPVVIKNKTWKFV EGLPINDFSREKMDLTAKELTEEKESAFEFLSSA |
| **Source/Host** | Mouse |
| **Species Reactivity** | Human |
| **Conjugate** | Unconjugated |
| **Applications** | WB (Recombinant protein), ELISA, |
| **Size** | 50 µl |
| **Buffer** | 50 % glycerol |
| **Preservative** | None |

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| | |
|---|---|
| **Storage** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

# GENE INFORMATION

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|---|---|
| **Gene Name** | MDH1 malate dehydrogenase 1, NAD (soluble) [ Homo sapiens (human) ] |
| **Official Symbol** | MDH1 |
| **Synonyms** | MDH1; malate dehydrogenase 1, NAD (soluble); MDHA; MOR2; MDH-s; HEL-S-32; MGC:1375; malate dehydrogenase, cytoplasmic; soluble malate dehydrogenase; cytosolic malate dehydrogenase; diiodophenylpyruvate reductase; epididymis secretory protein Li 32; |
| **Entrez Gene ID** | 4190 |
| **Protein Refseq** | NP_001186040 |
| **UniProt ID** | P40925 |
| **Chromosome Location** | 2p13.3 |
| **Pathway** | Carbon metabolism; Citrate cycle (TCA cycle); Citrate cycle (TCA cycle, Krebs cycle); Citrate cycle, second carbon oxidation, 2-oxoglutarate => |
| **Function** | L-malate dehydrogenase activity; NAD binding; diiodophenylpyruvate reductase activity; malic enzyme activity |

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