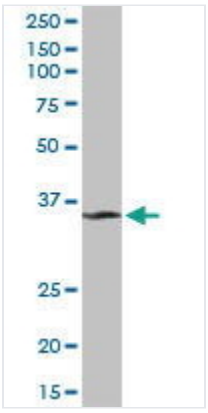
# MDH1 Antibody – Rabbit Polyclonal

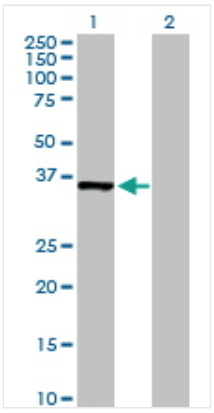
## PRODUCT OVERVIEW

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| **Product Name** | MDH1, Polyclonal Antibody |
| **Full Product Name** | MDH1 (Malate Dehydrogenase, Cytoplasmic, Cytosolic Malate Dehydrogenase, Diiodophenylpyruvate Reductase, MDHA) APC |
| **Product Gene Name** | anti-MDH1 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human MDH1. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo |
| **Molecular Weight** | 38,628 Da |
| **OMIM** | 154200 |
| **3D Structure** | ModBase 3D Structure for P40925 |
| **Immunogen** | Full length human MDH1, aa1-334 (NP_005908.1). |
| **Immunogen Sequence** | MSEPIRVLVTGAAGQIAYSLLYSIGNGSVFGKDQPIILVLLDITPMMGVLDGVLMELQDCALPLLKDVIATDKEDVAFKDLDVAILVGSMPRREGMERKDLLK |
| **Conjugate** | APC |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-MDH1 antibody** | Antibodies; Enzymes; Dehydrogenase |
| **Applications Tested/Suitable for anti-MDH1 antibody** | Western Blot (WB) |
| **Application Notes for anti-MDH1 antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-MDH1 antibody** | MDH1 is localized to the cytoplasm and may play pivotal roles in the malate-aspartate shuttle that operates in the metabolic coordination between cytos |
| **Other Notes** | Small volumes of anti-MDH1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess |

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| **Searchable Terms for MDH1 purchase** | MBS6385138 is an antibody targeting MDH1. Also known as MDH1 (Malate Dehydrogenase, Cytoplasmic, Cytosolic Malate Dehydrogenase, Diiodoph |




**Western Blot (WB) of anti-MDH1 antibody**
MDH1 rabbit polyclonal antibody. Western Blot analysis of MDH1 expression in human spleen.




**Western Blot (WB) of anti-MDH1 antibody**
Western Blot analysis of MDH1 expression in transfected 293T cell line by MDH1 polyclonal antibody. Lane 1: MDH1 transfected lysate (36.4kD). Lane 2: Non-transfected lysate.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MDH1. It may not necessarily be applicable to this product.

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|---|---|
| **NCBI GI #** | 5174539 |
| **NCBI GeneID** | 4190 |
| **NCBI Accession #** | NP_005908.1 |
| **UniProt Primary Accession #** | P40925 |
| **UniProt Secondary Accession #** | Q6I9V0; B2R5V5; B4DUN2; B7Z3I7; F5H098 |
| **UniProt Related Accession #** | P40925 |
| **GenBank Nucleotide #** | NM_005917.2 |
| **NCBI Official Full Name** | malate dehydrogenase, cytoplasmic isoform 2 |
| **NCBI Official Synonym Full Names** | malate dehydrogenase 1, NAD (soluble) |
| **NCBI Official Symbol** | MDH1 |
| **NCBI Official Synonym Symbols** | MDHA; MOR2; MDH-s; HEL-S-32; MGC:1375 |
| **UniProt Protein Name** | Malate dehydrogenase, cytoplasmic |
| **UniProt Synonym Protein Names** | Cytosolic malate dehydrogenase; Diiodophenylpyruvate reductase (EC:1.1.1.96) |
| **Protein Family** | Malate dehydrogenase |
| **UniProt Gene Name** | MDH1 |
| **UniProt Synonym Gene Names** | MDHA |
| **UniProt Entry Name** | MDHC_HUMAN |
| **NCBI Protein Information** | malate dehydrogenase, cytoplasmic; soluble malate dehydrogenase; cytosolic malate dehydrogenase; diiodophenylpyruvate reductase; epididymis secretory protein Li 32 |
| **NCBI Summary for MDH1** | 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] |

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| **UniProt Comments for MDH1** | MDH1: 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]<br><br>Protein type: EC 1.1.1.96; Carbohydrate Metabolism - pyruvate; Oxidoreductase; Carbohydrate Metabolism - citrate (TCA) cycle; EC 1.1.1.37; Carbohydrate Metabolism - glyoxylate and dicarboxylate<br><br>Chromosomal Location of Human Ortholog: 2p13.3<br><br>Cellular Component: centrosome; extracellular space; mitochondrion; cytoplasm; cytosol<br><br>Molecular Function: malic enzyme activity; L-malate dehydrogenase activity; diiodophenylpyruvate reductase activity; NAD binding<br><br>Biological Process: malate metabolic process; oxaloacetate metabolic process; NADH metabolic process; tricarboxylic acid cycle; carbohydrate metabolic process; glucose metabolic process; cellular carbohydrate metabolic process; pathogenesis; gluconeogenesis |
| **Research Articles on MDH1** | **1.** adipogenic differentiation may be regulated by the acetylation of MDH1 |
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