

**MDH1 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2908b****Specification**

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**MDH1 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P40925](#)**MDH1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 4190**Other Names**

Malate dehydrogenase, cytoplasmic, Cytosolic malate dehydrogenase, Diiodophenylpyruvate reductase, MDH1, MDHA

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2908b](/products/AP2908b) was selected from the C-term region of human MDH1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**MDH1 Antibody (C-term) Blocking Peptide - Protein Information****Name** MDH1 {ECO:0000303|PubMed:34012073, ECO:0000312|HGNC:HGNC:6970}**Function**

Catalyzes the reduction of aromatic alpha-keto acids in the presence of NADH (PubMed: [2449162](http://www.uniprot.org/citations/2449162), PubMed: [3052244](http://www.uniprot.org/citations/3052244)). Plays essential roles in the malate-aspartate shuttle and the tricarboxylic acid cycle, important in mitochondrial NADH supply for oxidative phosphorylation (PubMed: [31538237](http://www.uniprot.org/citations/31538237)). Catalyzes the reduction of 2-oxoglutarate to 2-hydroxyglutarate, leading to elevated reactive oxygen species (ROS) (PubMed: [34012073](http://www.uniprot.org/citations/34012073)).

**Cellular Location**

Cytoplasm, cytosol.

### **MDH1 Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **MDH1 Antibody (C-term) Blocking Peptide - Images**

### **MDH1 Antibody (C-term) Blocking Peptide - Background**

MDH1 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.

### **MDH1 Antibody (C-term) Blocking Peptide - References**

Lee, S.M., et.al., Cell Death Differ. 16 (5), 738-748 (2009)