

**MDH1 / MOR2 Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3951a**Specification**

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**MDH1 / MOR2 Antibody (internal region) - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P40925</a>
Other Accession	<a href="#">NP_001186040.1</a> , <a href="#">NP_005908.1</a> , <a href="#">NP_001186041.1</a> , <a href="#">4190</a> , <a href="#">17449 (mouse)</a> , <a href="#">24551 (rat)</a>
Reactivity	<b>Human, Mouse, Rat, Pig</b>
Predicted	<b>Dog</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Concentration	<b>0.5 mg/ml</b>
Isotype	<b>IgG</b>
Calculated MW	<b>36426</b>

**MDH1 / MOR2 Antibody (internal region) - Additional Information****Gene ID** 4190**Other Names**

Malate dehydrogenase, cytoplasmic, 1.1.1.37, Cytosolic malate dehydrogenase, Diiodophenylpyruvate reductase, 1.1.1.96, MDH1, MDHA

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MDH1 / MOR2 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**MDH1 / MOR2 Antibody (internal region) - 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:&lt;a href="http://www.uniprot.org/citations/2449162" target="\_blank"&gt;2449162&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/3052244" target="\_blank"&gt;3052244&lt;/a&gt;). Plays essential roles in the malate-aspartate shuttle and the tricarboxylic acid cycle, important in mitochondrial

NADH supply for oxidative phosphorylation (PubMed:<a href="http://www.uniprot.org/citations/31538237" target="\_blank">31538237</a>). Catalyzes the reduction of 2-oxoglutarate to 2- hydroxyglutarate, leading to elevated reactive oxygen species (ROS) (PubMed:<a href="http://www.uniprot.org/citations/34012073" target="\_blank">34012073</a>).

#### Cellular Location

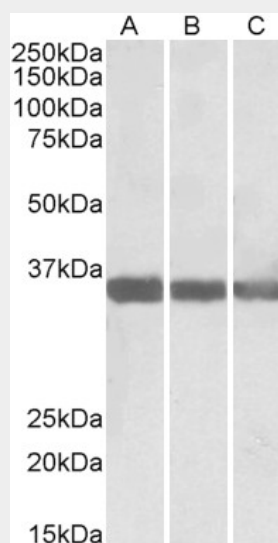
Cytoplasm, cytosol.

### MDH1 / MOR2 Antibody (internal region) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### MDH1 / MOR2 Antibody (internal region) - Images



AF3951a (0.01 µg/ml) staining of Human (A), Mouse (B) and Rat (C) Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### MDH1 / MOR2 Antibody (internal region) - Background

This antibody is expected to recognize all reported isoforms (NP\_001186040.1; NP\_005908.1; NP\_001186041.1).

### MDH1 / MOR2 Antibody (internal region) - References

A nucleocytoplasmic malate dehydrogenase regulates p53 transcriptional activity in response to metabolic stress. Lee SM, Kim JH, Cho EJ, Youn HD. Cell Death Differ. 2009 May;16(5):738-48. PMID: 19229245