

**MDH1 Antibody**  
**Sheep Polyclonal Antibody**  
**Catalog # ALS11748****Specification**

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**MDH1 Antibody - Product Information**

Application	IHC
Primary Accession	<a href="#">P40925</a>
Reactivity	Human, Pig
Host	Sheep
Clonality	Polyclonal
Calculated MW	36kDa KDa

**MDH1 Antibody - 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

**Target/Specificity**

Malate Dehydrogenase

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

**Precautions**

MDH1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**MDH1 Antibody - 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**

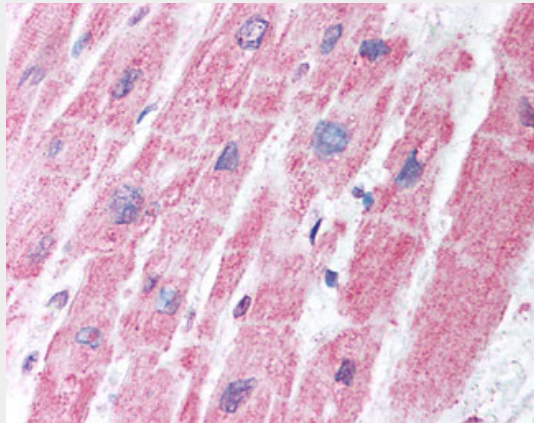
Cytoplasm, cytosol.

## MDH1 Antibody - 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 Antibody - Images



Anti-MDH1 antibody IHC of human heart.

## MDH1 Antibody - References

- Tanaka T., et al. *Genomics* 32:128-130(1996).  
Lo A.S.Y., et al. Submitted (MAY-1998) to the EMBL/GenBank/DDBJ databases.  
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.  
Ota T., et al. *Nat. Genet.* 36:40-45(2004).  
Hillier L.W., et al. *Nature* 434:724-731(2005).