

**MDH1 Antibody (clone 1D2)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS14507****Specification**

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**MDH1 Antibody (clone 1D2) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC                |
| Primary Accession | <a href="#">P40925</a> |
| Reactivity        | Human                  |
| Host              | Mouse                  |
| Clonality         | Monoclonal             |
| Calculated MW     | 36kDa KDa              |

**MDH1 Antibody (clone 1D2) - 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**

Human MDH1

**Reconstitution & Storage**

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

**Precautions**

MDH1 Antibody (clone 1D2) is for research use only and not for use in diagnostic or therapeutic procedures.

**MDH1 Antibody (clone 1D2) - 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:<a href="http://www.uniprot.org/citations/2449162" target="\_blank">2449162</a>, PubMed:<a href="http://www.uniprot.org/citations/3052244" target="\_blank">3052244</a>). 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**

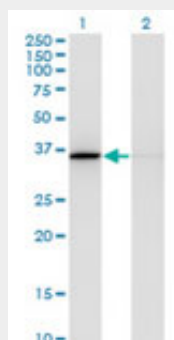
Cytoplasm, cytosol.

## MDH1 Antibody (clone 1D2) - Protocols

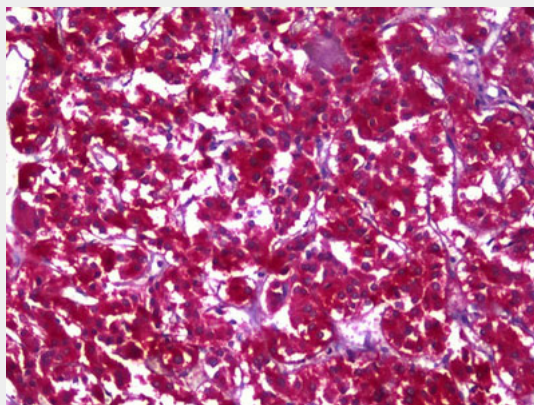
Provided below are standard protocols that you may find useful for product applications.

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

## MDH1 Antibody (clone 1D2) - Images



Western blot of MDH1 expression in transfected 293T cell line by MDH1 monoclonal antibody, clone...



Anti-MDH1 antibody IHC of human adrenal.

## MDH1 Antibody (clone 1D2) - 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).