

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

Specification

MDH1 Antibody (clone 1D2) - Product Information

Application	WB, IHC
Primary Accession	P40925
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: [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

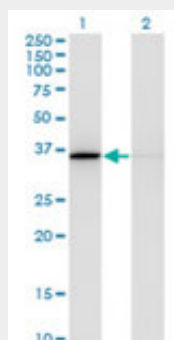
Cytoplasm, cytosol.

MDH1 Antibody (clone 1D2) - Protocols

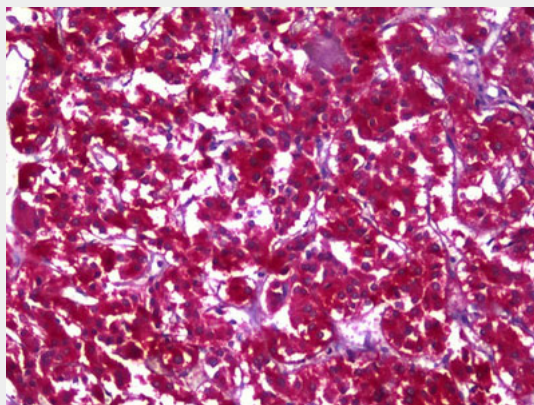
Provided below are standard protocols that you may find useful for product applications.

- [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).