

KD-Validated Anti-Malate Dehydrogenase 1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1671**Specification****KD-Validated Anti-Malate Dehydrogenase 1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	P40925
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 36 kDa , observed , 36 kDa KDa
Gene Name	MDH1
Aliases	MDH1; Malate Dehydrogenase 1; Malate Dehydrogenase 1, NAD (Soluble); Aromatic Alpha-Keto Acid Reductase; Malate Dehydrogenase, Cytoplasmic; Cytosolic Malate Dehydrogenase; EC 1.1.1.37; MDHA; KAR; Epididymis Secretory Protein Li 32; Malate Dehydrogenase, Peroxisomal; Diiodophenylpyruvate Reductase; Soluble Malate Dehydrogenase; EC 1.1.1.96; HEL-S-32; MGC:1375; EIEE88; DEE88; MDH-S; MOR2
Immunogen	A synthesized peptide derived from human MDH1

KD-Validated Anti-Malate Dehydrogenase 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	4190
Other Names	Malate dehydrogenase, cytoplasmic, 1.1.1.37, Aromatic alpha-keto acid reductase, KAR, 1.1.1.96, Cytosolic malate dehydrogenase, MDH1 {ECO:0000303 PubMed:34012073, ECO:0000312 HGNC:HGNC:6970}

KD-Validated Anti-Malate Dehydrogenase 1 Rabbit Monoclonal 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, PubMed:3052244). Plays essential roles in the malate-aspartate shuttle and the tricarboxylic acid cycle, important in mitochondrial NADH supply for oxidative phosphorylation (PubMed:3052244).

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

Cellular Location

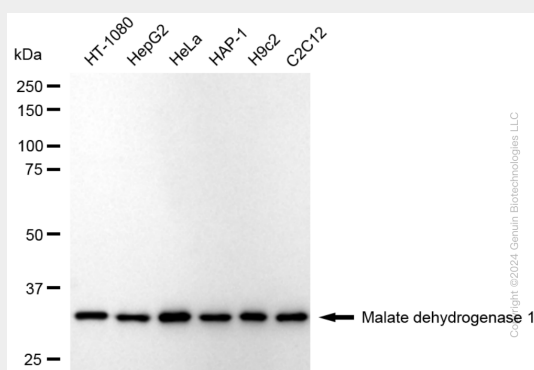
Cytoplasm, cytosol.

KD-Validated Anti-Malate Dehydrogenase 1 Rabbit Monoclonal Antibody - Protocols

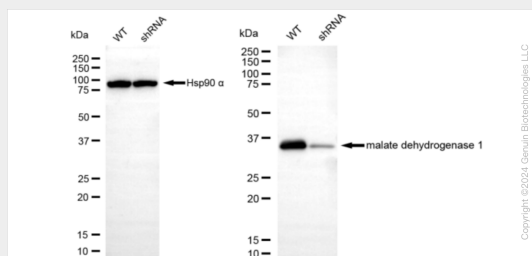
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-Malate Dehydrogenase 1 Rabbit Monoclonal Antibody - Images

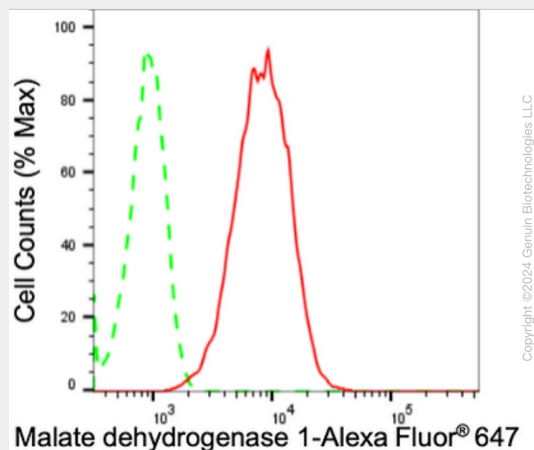


Western blotting analysis using anti-Malate dehydrogenase 1 antibody (Cat#62535). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Malate dehydrogenase 1 antibody (Cat#62535, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).



Western blotting analysis using anti-malate dehydrogenase 1 antibody (Cat#62535). Malate dehydrogenase 1 expression in wild-type (WT) and malate dehydrogenase 1 (MDH1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-malate dehydrogenase 1 antibody (Cat#62535, 1:5,000) and

HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using NaQ™ ECL Substrate Kit (Cat#716).



Flow cytometric analysis of Malate dehydrogenase 1 expression in HepG2 cells using anti-Malate dehydrogenase 1 antibody (Cat#62535, 1:2,000). Green, isotype control; red, Malate dehydrogenase 1.