

KD-Validated Anti-Malate dehydrogenase 2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1100

Product Information

Application	WB, FC, ICC
Primary Accession	P40926
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 2325
Calculated MW	35503
Gene Name	MDH2
Aliases	MDH2; Malate Dehydrogenase 2; Malate Dehydrogenase 2, NAD (Mitochondrial); Malate Dehydrogenase, Mitochondrial; EC 1.1.1.37; Testicular Tissue Protein Li 120; MGC:3559; EC 1.1.1; EIEE51; DEE51; M-MDH; MOR1; MDH
Immunogen	A synthesized peptide derived from human MDH2

Additional Information

Gene ID	4191
Other Names	Malate dehydrogenase, mitochondrial, 1.1.1.37, MDH2

Protein Information

Name	MDH2
Function	Mitochondrial malate dehydrogenase that catalyzes the reversible conversion of malate to oxaloacetate using NAD(+) as a cofactor (PubMed: 27989324). Plays a central role in the tricarboxylic acid (TCA) cycle contributing to cellular respiration and energy production via the mitochondrial electron transport chain (PubMed: 35366151). Also participates in the malate-aspartate NADH shuttle, facilitating transfer of reducing equivalents between cytosol and mitochondria to maintain redox balance (NAD(+)/NADH homeostasis) and support metabolic flux between compartments (By similarity). In addition to its metabolic role, binds to RNA in cells, associating with cytosolic RNAs including tRNAs and mRNAs (PubMed: 38609156).
Cellular Location	Mitochondrion matrix