

KD-Validated Anti-Malate Dehydrogenase 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1671

Product Information

Application	WB, FC
Primary Accession	P40925
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB1295
Calculated MW	36426
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

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}

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: 31538237). Catalyzes the reduction of 2-oxoglutarate to 2-hydroxyglutarate, leading to elevated reactive oxygen species (ROS) (PubMed: 34012073).
Cellular Location	Cytoplasm, cytosol.