

MDH1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP52021

Product Information

Application	WB
Primary Accession	P40925
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36426

Additional Information

Gene ID	4190
Other Names	Malate dehydrogenase, cytoplasmic, Cytosolic malate dehydrogenase, Diiodophenylpyruvate reductase, MDH1, MDHA
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MDH1. The exact sequence is proprietary.
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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.

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).

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