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Anti-MDH1 Antibody

Catalog # AP52021

Product Information

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

Additional Information

Gene ID	4190
Other Names	MDHA; Malate dehydrogenase, cytoplasmic; Cytosolic malate dehydrogenase; Diiodophenylpyruvate reductase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MDH1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

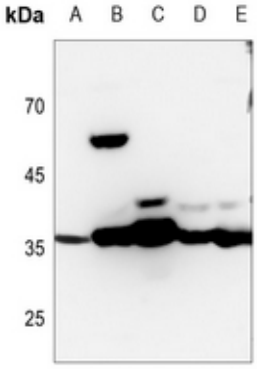
Name	MDH1 {ECO:0000303|PubMed:34012073, ECO:0000312|HGNC:HGNC:6970}
Function	Catalyzes the reduction of aromatic alpha-keto acids in the presence of NADH (PubMed:2449162, PubMed:3052244). Plays essential roles in the malate-aspartate shuttle and the tricarboxylic acid cycle, important in mitochondrial 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).

Images



Western blot analysis of MDH1 expression in PC12 (A), mouse liver (B), mouse kidney (C), rat muscle (D), rat kidney (E) whole cell lysates. (Predicted band size: 36 kD; Observed band size: 36 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.