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MDH2 Antibody

Rabbit mAb
Catalog # AP92987

Product Information

Application	WB, IHC
Primary Accession	P40926
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	M MDH; Malate dehydrogenase;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	35503

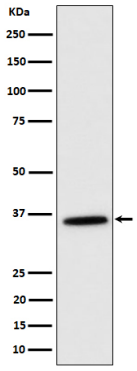
Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human MDH2
Description	Belongs to the LDH/MDH superfamily. MDH type 1 family.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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

Images



Western blot analysis of MDH2 expression in K562 cell lysate.

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