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Goat anti-MDH2 Antibody

Peptide-affinity purified goat antibody
Catalog # AF4450a

Product Information

Application	WB, IHC, Pep-ELISA
Primary Accession	P40926
Other Accession	NP_005909.2
Reactivity	Human, Mouse, Rat, Pig, Bovine
Host	Goat
Clonality	Polyclonal
Clone Names	MDH2
Calculated MW	35503

Additional Information

Gene ID	4191
Other Names	MDH2; malate dehydrogenase 2, NAD (mitochondrial); M-MDH; MDH; MGC:3559; MOR1; malate dehydrogenase, mitochondrial
Dilution	WB~~1:1000 IHC~~1:100~500 Pep-ELISA~~N/A
Format	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Goat anti-MDH2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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

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