

Anti-MDH1 Rabbit Monoclonal Antibody

Catalog # ABO15748

Product Information

Application	WB, IF, ICC, IP, FC
Primary Accession	P40925
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-MDH1 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

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}
Calculated MW	36426
Application Details	WB 1:1000-1:5000 ICC/IF 1:50-1:200 IP 1:50 FC 1:30
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 23M24
Immunogen	A synthesized peptide derived from human MDH1
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

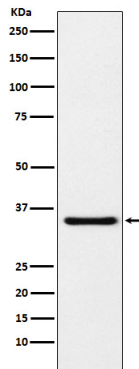
Name	MDH1 {ECO:0000303 PubMed:34012073, ECO:0000312 HGNC:HGNC:6970}
Function	Catalyzes the reduction of aromatic alpha-keto acids in the presence of

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.

Images



Western blot analysis of MDH1 expression in HeLa cell lysate.

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