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# MDH1 Antibody

Rabbit mAb
Catalog # AP92328

## Product Information

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|---|---|
| **Application** | WB, IF, FC, ICC, IP |
| **Primary Accession** | P40925 |
| **Reactivity** | Rat, Human, Mouse |
| **Clonality** | Monoclonal |
| **Other Names** | MDH s; mdh1; MDHA; MDHs; MOR2; |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Calculated MW** | 36426 |

## Additional Information

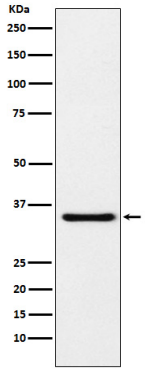
| | |
|---|---|
| **Dilution** | WB 1:1000~1:5000 ICC/IF 1:50~1:200 IP 1:50 FC 1:30 |
| **Purification** | Affinity-chromatography |
| **Immunogen** | A synthesized peptide derived from human MDH1 |
| **Description** | Belongs to the LDH/MDH superfamily. MDH type 2 family. |
| **Storage Condition and 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

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|---|---|
| **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.




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