Leader in Biomolecular Solutions for Life Science

MDH1 Rabbit pAb

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Catalog No.: A7563   **3 Publications**

Basic Information

Observed MW
36kDa

Calculated MW
36kDa

Category
Polyclonal Antibody

Applications
WB,ELISA

Cross-Reactivity
Human,Mouse,Rat

Background

This gene encodes an enzyme that catalyzes the NAD/NADH-dependent, reversible oxidation of malate to oxaloacetate in many metabolic pathways, including the citric acid cycle. Two main isozymes are known to exist in eukaryotic cells: one is found in the mitochondrial matrix and the other in the cytoplasm. This gene encodes the cytosolic isozyme, which plays a key role in the malate-aspartate shuttle that allows malate to pass through the mitochondrial membrane to be transformed into oxaloacetate for further cellular processes. Alternatively spliced transcript variants have been found for this gene. A recent study showed that a C-terminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is localized in the peroxisomes. Pseudogenes have been identified on chromosomes X and 6.

Recommended Dilutions

WB   1:500 - 1:2000

Immunogen Information

Gene ID
4190

Swiss Prot
P40925

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 1-334 of human MDH1 (NP_005908.1).

Synonyms
KAR; MDHA; MOR2; DEE88; MDH-s; EIEE88; HEL-S-32; MGC:1375; MDH1

Contact

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Product Information
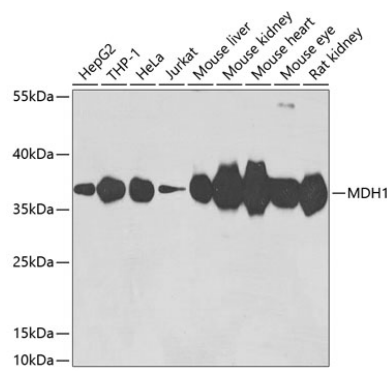
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Validation Data

Western blot analysis of extracts of various cell lines, using MDH1 antibody (A7563) at 1:3000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.