

For Research Use Only

MDH1 Recombinant antibody

Catalog Number: 84576-4-RR



Basic Information

Catalog Number:

84576-4-RR

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8744

GenBank Accession Number:

BC001484

GeneID (NCBI):

4190

UNIPROT ID:

P40925

Full Name:

malate dehydrogenase 1, NAD (soluble)

Calculated MW:

334 aa, 36 kDa

Observed MW:

35-37 kDa

Purification Method:

Protein A purification

CloneNo.:

241887A1

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:300-1:1200

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HepG2 cells, HL-60 cells, mouse liver tissue, rat liver tissue, mouse kidney tissue, human kidney tissue

IHC : mouse heart tissue,

Background Information

MDH1 (Malate dehydrogenase, cytoplasmic) is also named as MDHA and belongs to the LDH/MDH superfamily and MDH type 2 family which catalyzes the reversible oxidation of malate to oxaloacetate, utilizing the NAD/NADH cofactor system in the citric acid cycle. It can exist as a dimer and the dimeric MDH1 is the mitochondrial isoenzyme, whereas the tetrameric MDH2 is the glycosomal isoenzyme. (PMID:10693743)

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

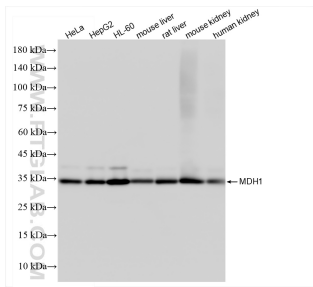
T: 4006900926

E: Proteintech-CN@ptglab.com

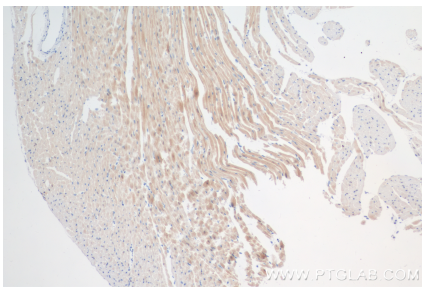
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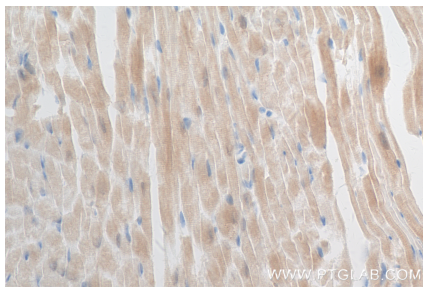
Selected Validation Data



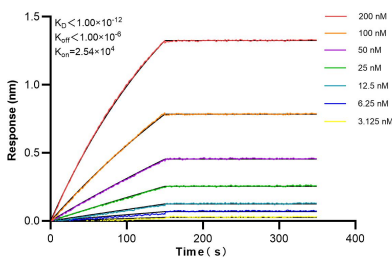
Various lysates were subjected to SDS PAGE followed by western blot with 84576-4-RR (MDH1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 84576-4-RR (MDH1 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 84576-4-RR (MDH1 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 84576-4-RR against Human MDH1 were performed. The affinity constant is below 1 pM.