
Product Name: KD-Validated Malate Dehydrogenase 2 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01721**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 35.5kDa

Antigen Information

Gene Name	MDH2 MDH2; Malate Dehydrogenase 2; Malate Dehydrogenase 2, NAD (Mitochondrial); Malate
Alternative Names	Dehydrogenase, Mitochondrial; EC 1.1.1.37; Testicular Tissue Protein Li 120; MGC:3559; EC 1.1.1; EIEE51; DEE51; M-MDH; MOR1; MDH
Gene ID	4191.0
SwissProt ID	P40926
Immunogen	A synthesized peptide derived from human MDH2

Background

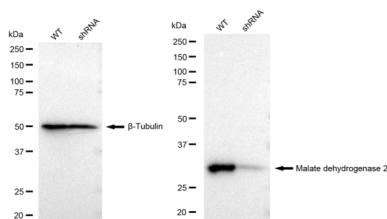
Malate dehydrogenase catalyzes the reversible oxidation of malate to oxaloacetate, utilizing the NAD/NADH cofactor system in

the citric acid cycle. The protein encoded by this gene is localized to the mitochondria and may play pivotal roles in the malate-aspartate shuttle that operates in the metabolic coordination between cytosol and mitochondria. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013]

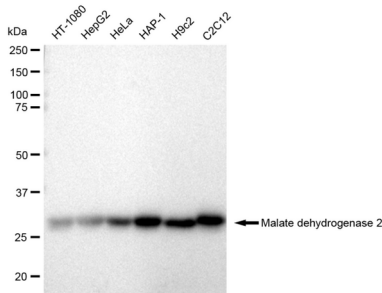
Research Area

Tags & Cell Markers, Signal Transduction, Metabolism

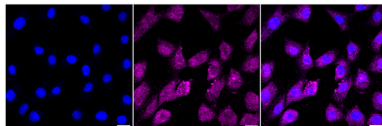
Image Data



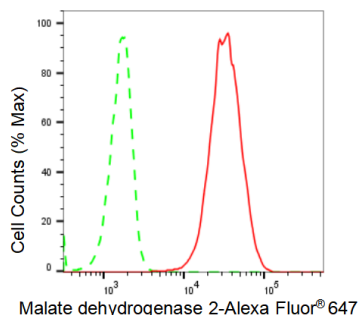
Western blotting analysis using Malate dehydrogenase 2 antibody (KVA01721). Malate dehydrogenase 2 expression in wild type (WT) and malate dehydrogenase 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Malate dehydrogenase 2 antibody (KVA01721, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Malate dehydrogenase 2 antibody (KVA01721). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Malate dehydrogenase 2 antibody (KVA01721, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with Malate dehydrogenase 2 antibody (KVA01721, 1:1,000). Nuclei were stained blue with DAPI; Malate dehydrogenase 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.



Flow cytometric analysis of Malate dehydrogenase 2 expression in C2C12 cells using Malate dehydrogenase 2 antibody (KVA01721, 1:2,000). Green, isotype control; red, Malate dehydrogenase 2.