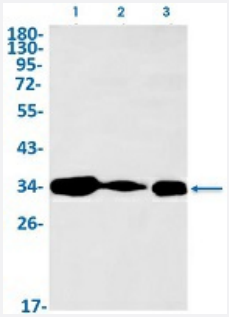
RecomAb™

MDH2 recombinant monoclonal antibody, clone R06-4E2

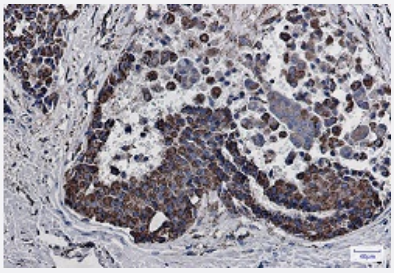
Catalog # RAB02113 Size 100 uL

Applications



Western Blot

Western Blot analysis of Lane 1: K562, Lane 2: C6 and Lane 3: 3T3 lysates with MDH2 recombinant monoclonal antibody, clone R06-4E2 (Cat # RAB02113).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human breast cancer with MDH2 recombinant monoclonal antibody, clone R06-4E2 (Cat # RAB020113). High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human MDH2.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human MDH2.
Theoretical MW (kDa)	Calculated MW: 36 kD
Reactivity	Human, Rat
Form	Liquid

Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at -20 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot

  Western Blot analysis of Lane 1: K562, Lane 2: C6 and Lane 3: 3T3 lysates with MDH2 recombinant monoclonal antibody, clone R06-4E2 (Cat # RAB02113).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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Gene Info — MDH2

Entrez GeneID	4191
Protein Accession#	P40926
Gene Name	MDH2
Gene Alias	M-MDH, MDH, MGC:3559, MOR1
Gene Description	malate dehydrogenase 2, NAD (mitochondrial)
Omim ID	154100
Gene Ontology	Hyperlink

Gene Summary	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. [provided by RefSeq
Other Designations	mitochondrial malate dehydrogenase

Pathway

- Biosynthesis of alkaloids derived from histidine and purine
- Biosynthesis of alkaloids derived from ornithine
- Biosynthesis of alkaloids derived from shikimate pathway
- Biosynthesis of alkaloids derived from terpenoid and polyketide
- Biosynthesis of phenylpropanoids
- Biosynthesis of plant hormones
- Biosynthesis of terpenoids and steroids
- Carbon fixation in photosynthetic organisms
- Citrate cycle (TCA cycle)
- Glyoxylate and dicarboxylate metabolism
- Metabolic pathways
- Pyruvate metabolism
- Reductive carboxylate cycle (CO2 fixation)

Disease

- Tobacco Use Disorder