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Rabbit Anti-MDH1/Cy5 Conjugated antibody

SL3996R-Cy5

Product Name	Anti-MDH1/Cy5
Chinese Name	Cy5 标记的可溶性苹果酸脱氢酶抗体
Alias	Cytosolic malate dehydrogenase; Malate dehydrogenase 1, NAD (soluble); MDHA; MDHs; Soluble malate dehydrogenase; Malate dehydrogenase; Diiodophenylpyruvate reductase; Malate dehydrogenase 1; Malate dehydrogenase 1 NAD (soluble); Malate dehydrogenase 2; Malate dehydrogenase cytoplasmic; Malate dehydrogenase 2 NAD (mitochondrial); MDH 1; MDH 2; MDH; MDH1; MDH2; MDHA; MDHm; MDHs; MMDH; Mor 1; Mor 2; Mor1; MOR2; cytoplasmic; MDH s; mdh1; MDHC_HUMAN; MGC:1375; SMDH; Soluble malate dehydrogenase.
Research Area	Tumour Signal transduction The new supersedes the old
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human Mouse Rat(predicted:Chicken Dog Pig Cow Horse Rabbit)
Applications	Flow-Cyt=1:50-200 IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	36kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human MDH1
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** Malate dehydrogenase catalyzes the reversible oxidation of malate to

oxaloacetate, utilizing the NAD/NADH cofactor system in the citric acid cycle. Malate dehydrogenase 1 (MDH1) is localized to the cytoplasm and may play pivotal roles in the malate-aspartate shuttle that operates in the metabolic coordination between cytosol and mitochondria.

Subunit:
Homodimer.

Subcellular Location:
Cytoplasm.

Post-translational modifications:
ISGylated.
Acetylation at Lys-118 dramatically enhances enzymatic activity and promotes adipogenic differentiation.

Similarity:
Belongs to the LDH/MDH superfamily. MDH type 2 family.

Database links:

Entrez Gene: 4190 Human

Entrez Gene: 17449 Mouse

Entrez Gene: 24551 Rat

Omim: 154200 Human

SwissProt: P40925 Human

SwissProt: P14152 Mouse

SwissProt: O88989 Rat

Unigene: 526521 Human

Unigene: 212703 Mouse

Unigene: 13492 Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.