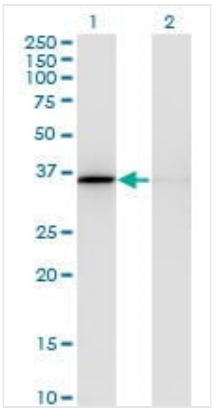
MDH1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MDH1, Monoclonal Antibody
Full Product Name	MDH1 (Malate Dehydrogenase 1, NAD (Soluble), MDH-s, MDHA, MGC:1375, MOR2) (APC)
Product Gene Name	anti-MDH1 antibody
Product Synonym Names	Malate Dehydrogenase 1; NAD (Soluble); MDH-s; MDHA; MGC:1375; MOR2
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	1D2
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified
Specificity	Recognizes MDH1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Immunogen	MDH1 (AAH01484.1, 101aa-193aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	LLKANVKIFKSQGAALDKYAKKSVKVIVVGNPANTNCLTASKSAPSIPKENFSCLTRLDHNRAKAQIALKLGVTANDVKNVIIWGNHSSTQYP
Conjugate	APC
Product Categories/Family for anti-MDH1 antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-MDH1 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-MDH1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MDH1 antibody	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 cytoplasm and may play pivotal roles in the malate-aspartate shuttle that operates in the metabolic coordination between cytosol and mitochondria. [provided by RefSeq]
Other Notes	Small volumes of anti-MDH1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MDH1 purchase	MBS6168753 is an antibody targeting MDH1. Also known as MDH1 (Malate Dehydrogenase 1, NAD (Soluble), MDH-s, MDHA, MGC:1375, MOR2) (APC). Host: Mouse.



Western Blot (WB) of anti-MDH1 antibody
Western Blot analysis of MDH1 expression in transfected 293T cell line by MDH1 monoclonal antibody (M03), clone 1D2.Lane 1: MDH1 transfected lysate(36.4 KDa).Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MDH1. It may not necessarily be applicable to this product.

NCBI GI #	16306622
NCBI GeneID	4190
NCBI Accession #	AAH01484.1
UniProt Related Accession #	P40925
NCBI Official Full Name	Malate dehydrogenase 1, NAD (soluble)
NCBI Official Synonym Full Names	malate dehydrogenase 1
NCBI Official Symbol	MDH1
NCBI Official Synonym Symbols	MDHA; MOR2; MDH-s; HEL-S-32; MGC:1375
Protein Family	Malate dehydrogenase
NCBI Protein Information	malate dehydrogenase, cytoplasmic; malate dehydrogenase, peroxisomal
NCBI Summary for MDH1	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. [provided by RefSeq, Feb 2016]
Research Articles on MDH1	**1.** MDH1 deficiency is a new metabolic defect in the malate-aspartate shuttle and is associated with a severe neurodevelopmental phenotype.
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