

Rabbit MDH1 Polyclonal Antibody | anti-MDH1 antibody

Anti-MDH1 Antibody Picoband

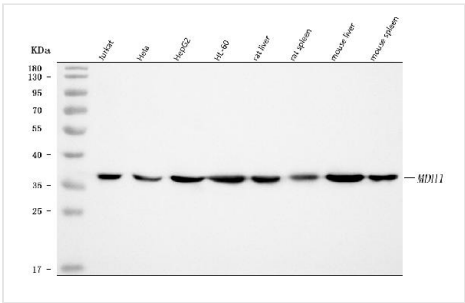
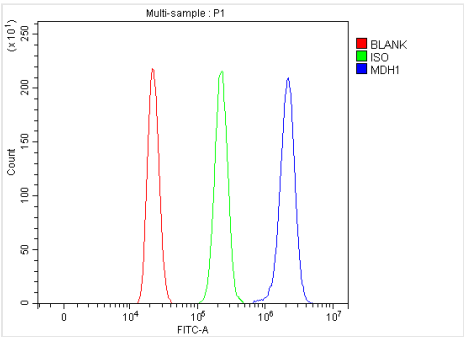
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127224	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

MDH1; Polyclonal Antibody; Anti-MDH1 Antibody Picoband; calbindin 2; Calretinin; CR; 29 kDa calbindin; CALB2; CAB29; anti-MDH1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Brain.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-MDH1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human MDH1 recombinant protein (Position: E56-A334).
Subcellular Localization	Cuticular plate. Cytosol. Nucleus. Synaptic membrane. Dendrite. Gap junction. Neuron projection. Parallel fiber to Purkinje cell synapse. Presynapse. Stereocilium. Synapse
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Calretinin is a calcium-binding protein which is abundant in auditory neurons.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



WB (Western Blot)
Figure 1. Western blot analysis of MDH1 using anti-MDH1 antibody (AAA127224). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human HL-60 whole cell lysates, Lane 5: rat liver tissue lysates, Lane 6: rat spleen tissue lysates, Lane 7: mouse liver tissue lysates, Lane 8: mouse spleen tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MDH1 antigen affinity purified polyclonal antibody (#AAA127224) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for MDH1 at approximately 36 kDa. The expected band size for MDH1 is at 59 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MDH1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-MDH1 antibody	Primary Antibodies; Adaptive Immunity; B Cells; Hematopoietic Progenitors; Immunoglobulins; Immunology; Lymphoid; Receptors; Stem Cells
References	1. Ball, S. T., Moseley, H. J., Peters, J. Mor2, supernatant malate dehydrogenase, is linked to wa2 and Hba on mouse chromosome 11 in a region of homology with human chromosome 2p. Genomics 24: 399-400, 1994.2. Birktoft, J. J., Fernley, R. T., Bradshaw, R. A., Banaszak, L. J. Amino acid sequence homology among the 2-hydroxy acid dehydrogenases: mitochondrial and cytoplasmic malate dehydrogenases form a homologous system with lactate dehydrogenase. Proc. Nat. Acad. Sci. 79: 6166-6170, 1982. 3. Blake, N. M., Kirk, R. L., Simons, M. J., Alpers, M. P. Genetic variants of soluble malate dehydrogenase in New Guinea populations. Humangenetik 11: 72-74, 1970.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1708967
NCBI GeneID	4190
UniProt Accession #	P40925; Q6I9V0; B2R5V5; B4DUN2; B7Z3I7; F5H098
Molecular Weight	334
NCBI Official Full Name	Malate dehydrogenase, cytoplasmic
NCBI Official Synonym Full Names	malate dehydrogenase 1, NAD (soluble)
NCBI Official Symbol	MDH1
NCBI Official Synonym Symbols	MDHA; MOR2; MDH-s; HEL-S-32; MGC:1375
NCBI Protein Information	malate dehydrogenase, cytoplasmic; soluble malate dehydrogenase; cytosolic malate dehydrogenase; diiodophenylpyruvate reductase; epididymis secretory protein Li 32

UniProt Protein Name	Malate dehydrogenase, cytoplasmic
UniProt Gene Name	MDH1
UniProt Synonym Gene Names	MDHA
UniProt Entry Name	MDHC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mdh1-antibody-flow-cytometry-western-blot-elisa/127224>