# abcam

## Product datasheet

# Recombinant human MDH2 protein ab99238

1 References 画像数 1

#### 製品の詳細

製品名

Recombinant human MDH2 protein

生理活性

Specific activity is > 30 units/mg, and is defined as the amount of enzyme that cleaves 1umole of oxalacetate and beta-NADH to L-malate and beta-NAD per minute at pH7.5 at 25°C

**Activity Assay** 

Prepare assay buffer into a suitable container and pre-chill on ice before use: The final concentrations are 100 mM Potassium phosphate, 0.13mM beta-nicotinamide adenine dinucleotide, reduced form, 0.25mM oxalacetic acid.

Add recombinant MDH protein with various concentrations (0.1ug, 0.5ug, 1ug) in assay buffer

Mix by inversion and equilibrate to 1°C and monitor at A340nm until the value is constant using a spectrophotometer.

Record the increase at A340nm for approximately 2 minutes

精製度 > 95 % SDS-PAGE.

ab99238 is purified using conventional chromatography techniques.

**発現系** Escherichia coli

アクセッション番号 <u>P40926</u>

タンパク質長 Full length protein

Animal free No

由来 Recombinant

生物種 Human

配列 MGSSHHHHHHSSGLVPRGSHMAKVAVLGASGGIGQPLSLL LKNSPLVSRL

TLYDIAHTPGVAADLSHIETKAAVKGYLGPEQLPDCLKGCDV

**VVIPAGVP** 

RKPGMTRDDLFNTNATIVATLTAACAQHCPEAMICVIANPVN

STIPITAE

VFKKHGVYNPNKIFGVTTLDIVRANTFVAELKGLDPARVNVP

VIGGHAGK

TIIPLISQCTPKVDFPQDQLTALTGRIQEAGTEVVKAKAGAG

SATLSMAY

AGARFVFSLVDAMNGKEGVVECSFVKSQETECTYFSTPLLLG

KKGIEKNL

GIGKVSSFEEKMISDAIPELKASIKKGEDFVKTLK

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予測される分子量 35 kDa including tags

**領域** 25 to 338

サブ His tag N-Terminus

#### 特性

Our Abpromise guarantee covers the use of ab99238 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション SDS-PAGE

Mass Spectrometry
Functional Studies

**質量分析** MALDI-TOF

製品の状態 Liquid

#### 前処理および保存

保存方法および安定性 Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw

cycles.

pH: 7.50

Constituents: 0.316% Tris HCI, 10% Glycerol (glycerin, glycerine)

This product is an active protein and may elicit a biological response in vivo, handle with caution.

#### 関連情報

**配列類似性** Belongs to the LDH/MDH superfamily. MDH type 1 family.

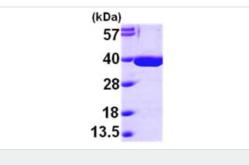
翻訳後修飾 Acetylation is enhanced by up to 67% after treatment either with trichostin A (TSA) or with

nicotinamide (NAM) with the appearance of tri-and tetraacetylations. Glucose also increases

acetylation by about 60%.

細胞内局在 Mitochondrion matrix.

### 画像



SDS-PAGE - Recombinant human MDH2 protein

(ab99238)

15% SDS-PAGE showing ab99238 at approximately 35.2kDa (3 $\mu$ g).

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