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## Human Enolase 1/2 antibody

Catalog Number: ATGA0424

#### **PRODUCT INFORMATION**

#### Catalog number

ATGA0424

#### Clone No.

AT1G7

#### **Product type**

Monoclonal Antibody

#### UnitProt No.

P06733

#### **NCBI Accession No.**

NP 001419

#### **Alternative Names**

Alpha-enolase, 2-phospho-D-glycerate hydro-lyase, C-myc promoter-binding protein, Enolase 1, MBP-1, MPB-1, Non-neural enolase, NNE, Phosphopyruvate hydratase, PPH, Plasminogen-binding protein, ENO1L1, MBPB1, MPB1, ENO1-IT1, ENO1 intronic transcript 1

#### **PRODUCT SPECIFICATION**

#### **Antibody Host**

Mouse

#### **Reacts With**

Human

#### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### Immunogen

Recombinant human Alpha-enolase (1-434aa) purified from E. coli

#### Isotype

IgG2a kappa

#### **Purification Note**

By protein-A affinity chromatography

#### **Application**

ELISA, WB, ICC/IF, FACS

#### Usage

The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.



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#### **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

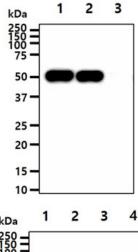
Alpha-enolase, also known as Enolase 1, is one of three enolase isoenzymes and a glycolytic enzyme expressed in most tissues. This protein plays a key role in anaerobic metabolism under hypoxic conditions and may act as a cell surface plasminogen receptor during tissue invasion. Abnormal expression of alpha-enolase is associated with tumor progression in some cases of breast and lung cancer. It also has been identified as an autoantigen associated with Hashimoto's encephalopathy and severe asthma.

#### **General References**

Das R., et al. (2009) Blood. 113(22): 5371-2. Ueno NT., et al. (2008) Cancer Res. 68(22): 9302-10.

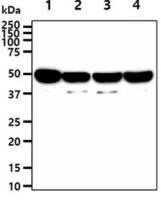
#### **DATA**

#### Western blot analysis (WB)



The recombinant protein (50ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ENO1, 2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: ENO1 (Alpha-enolase) recombinant protein Lane 2.: ENO2 (Gamma-enolase) recombinant protein Lane 3.: ENO3 (Beta-enolase) recombinant protein.



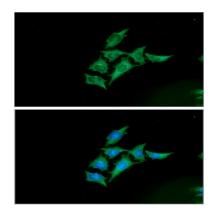
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ENO1, 2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: PC3 cell lysate Lane 2.: MCF7 cell lysate Lane 3.: 293T cell lysate Lane 4.: HeLa cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

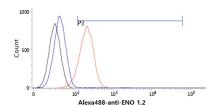
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ICC/IF analysis of ENO1, 2 in HeLa cells. The cell was stained with ATGA0424 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

#### Flow cytometry (FACS)



Flow cytometry analysis of ENO1, 2 in LNCap cells. The cell was stained with ATGA0424 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (blue), cells without incubation with primary and secondary antibody was used as the negative control (black).

