

Monoclonal anti-human ENO1, 2 antibody (clone AT1G7)

Mouse IgG_{2a}, κ

Cat. No. IBATGA0424

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

NCBI Accession No.: NP_001419

Isotype: Mouse IgG_{2a} heavy chain and κ light chain

Clone: Anti-human ENO1, 2 mAb, clone AT1G7, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human Alpha-enolase protein.

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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

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.

Application: ELISA, WB, Flow cytometry, ICC/IF

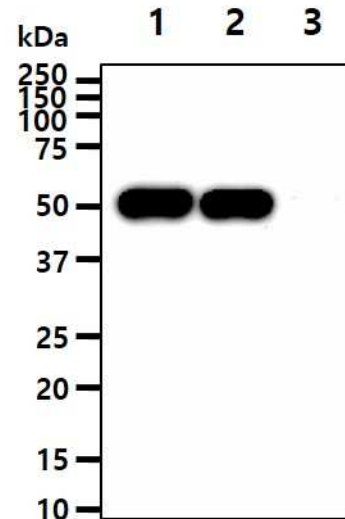
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Product information

Western blot analysis

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.

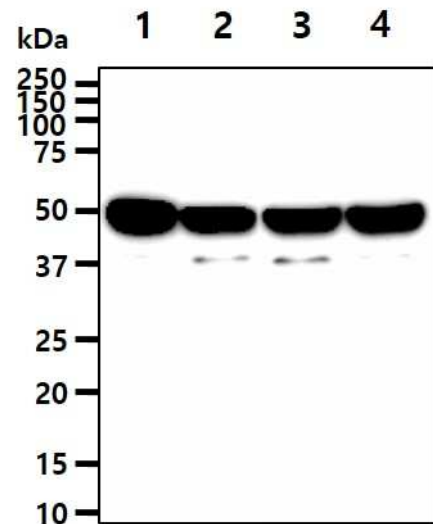
- Lane 1.: ENO1 (Alpha-enolase) recombinant protein
- Lane 2.: ENO2 (Gamma-enolase) recombinant protein
- Lane 3.: ENO3 (Beta-enolase) recombinant protein



Western blot analysis

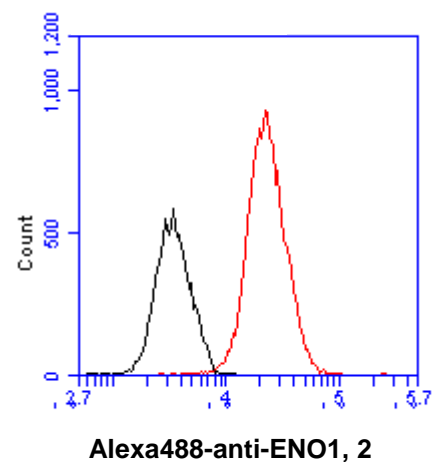
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ENO1, 2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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



Flow cytometry

Flow cytometry analysis of ENO1, 2 in LNCap cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

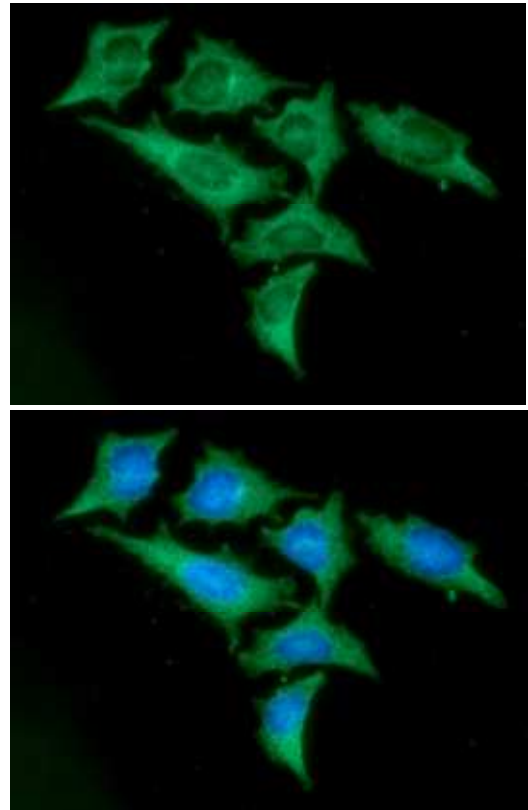


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ICC/IF analysis

ICC/IF analysis of ENO1, 2 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ENO1, 2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



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

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