Data Sheet (Cat.No.TMAH-00385)

Anti-ENO1 Antibody (1H358)

Product Details

Ig Type:	IgG1
Reactivity:	Human, Mouse, Rat, Rabbit
Conjugation:	Unconjugated
Clone:	1H358
Purification:	Protein G purified

Applications

Verified Activity:

1. Western Blot
-Positive WB detected in: K562 whole cell lysate, NIH/3T3 whole cell lysate, Rat Brain tissue, Mouse Brain tissue, Rabbit Skeletal Muscle tissue, Rat Kidney tissue, Rabbit Kidney tissue
-All lanes ENO1 antibody at 1:10000
-Secondary: Goat polyclonal to mouse IgG at 1/10000 dilution
-Predicted band size: 47 KDa
-Observed band size: 47 KDa
-Exposure time: 1min
2. Western Blot
-Positive WB detected in: MCF-7 whole cell lysate, Hela whole cell lysate, Jurkat whole cell lysate, HepG2 whole cell lysate
-All lanes ENO1 antibody at 1:10000
-Secondary: Goat polyclonal to mouse IgG at 1/10000 dilution
-Predicted band size: 47 KDa
-Observed band size: 47 KDa
-Exposure time: 10s
3. Western Blot
-Positive WB detected in: HepG2 whole cell lysate at 20μg, 10μg, 5μg, 2.5μg, 1.25μg, 0.625μg
-All lanes: ENO1 antibody at 1:5000
-Secondary: Goat polyclonal to Mouse IgG at 1/10000 dilution
-Predicted band size: 47 kDa
-Observed band size: 47 KDa
-Exposure time: 10s
4. Western Blot
-Positive WB detected in: MCF-7 whole cell lysate
-All lanes: ENO1 antibody at 1:5000, 1:10000, 1:20000, 1:40000, 1:80000, 1:160000, 1:320000
-Secondary: Goat polyclonal to Mouse IgG at 1/10000 dilution
-Predicted band size: 47 kDa
-Observed band size: 47 KDa
-Exposure time: 10s
5. IHC image of TMAH-00385 diluted at 1:500 and staining in paraffin-embedded human liver cancer tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

6. IHC image of TMAH-00385 diluted at 1:500 and staining in paraffin-embedded human liver cancer tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.
7. IHC image of TMAH-00385 diluted at 1:500 and staining in paraffin-embedded human colon cancer tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.
8. IHC image of TMAH-00385 diluted at 1:500 and staining in paraffin-embedded human colon cancer tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.
9. IHC image of TMAH-00385 diluted at 1:500 and staining in paraffin-embedded human pancreas tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.
10. IHC image of TMAH-00385 diluted at 1:500 and staining in paraffin-embedded human pancreas tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.
11. Immunofluorescence staining of MCF-7 cells with TMAH-00385 at 1:130, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Mouse IgG(H+L).
12. Immunofluorescence staining of Hela cells with TMAH-00385 at 1:130, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Mouse IgG(H+L).
13. Immunofluorescence staining of HepG2 cells with TMAH-00385 at 1:130, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Mouse IgG(H+L).
14. Overlay histogram showing Hela cells stained with TMAH-00385 (red line) at 1:260. The cells were incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-mouse IgG(H+L) at 1/200 dilution for 1 h at 4°C. Isotype control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.
15. Overlay histogram showing MCF-7 cells stained with TMAH-00385 (red line) at 1:260. The cells were incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-mouse IgG(H+L) at 1/200 dilution for 1 h at 4°C. Isotype control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.
16. Immunoprecipitating ENO1 in HepG2 whoanle cell lysate

-Lane 1: Mouse control IgG (1μg) instead of TMAH-00385 in HepG2 whole cell lysate.
For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)
-Lane 2: TMAH-00386 (2μl) + HepG2 whole cell lysate (500μg)
-Lane 3: HepG2 whole cell lysate (10μg)
17. 1-Exosomes extracted from plasma
2-Exosomes extracted from serum
3-Exosomes extracted from urine
4-Exosomes extracted from Hela cells
5-Exosomes extracted from latex
6-Exosomes extracted from saliva
18. 1-Exosomes extracted from MG63 cells
2-Exosomes extracted from Ntera-2 cells
3-MG63 cell Lysate
19. 1-Exosomes extracted from HEPG2 cells
2-Exosomes extracted from PC-3 cells
3-Exosomes extracted from Hela cells
4-Exosomes extracted from U87 cells
5-Hela cell Lysate
20. 1-Exosomes extracted from Raji cells
2-Exosomes extracted from U251 cells
3-Raji cell Lysate

Application: ELISA,FCM,IF,IHC,IP,WB

Properties

Purity: >95%

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human Alpha-enolase Protein (2-434AA)

Antigen Species: Human

Gene ID: 2023

Uniprot ID: P06733

Synonyms: MPB1;enolase 1, (α);NNE;PPH;HEL-S-17;enolase 1, (alpha);ENO1L1

Biology Area: Immunology

Research Background

Glycolytic enzyme the catalyzes the conversion of 2-phosphoglycerate to phosphoenolpyruvate. In addition to glycolysis, involved in various processes such as growth control, hypoxia tolerance and allergic responses. May also function in the intravascular and pericellular fibrinolytic system due to its ability to serve as a receptor and activator of plasminogen on the cell surface of several cell-types such as leukocytes and neurons. Stimulates immunoglobulin production. MBP1 binds to the myc promoter and acts as a transcriptional repressor. May be a tumor suppressor.

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