

Anti-ENO1/2/3 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

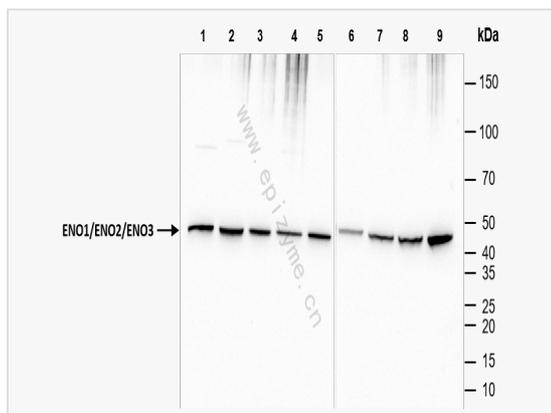
Catalog # R012931

Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	99K55L22
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human ENO1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-ENO1/2/3 antibody [99K55L22] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	2-phospho-D-glycerate hydro-lyase, Alpha-enolase, Beta-enolase, C-myc promoter-binding protein, Crystallin Tau, included, ENO1L1, Enolase 1, (alpha), Enolase 2 (gamma, neuronal), Enolase 2, Enolase 3 (beta, muscle), Enolase 3, Enolase alpha, Enolase, beta, Enolase, gamma, Enolase, muscle specific, Enolase, neuron specific, Enolase, nonneuronal, included, Gamma-enolase, GSD13, MBP-1, MPBI, MSE, Muscle-specific enolase, Neural enolase, Neuron-specific enolase, NNE, Non-neural enolase, NSE, Phosphopyruvate hydratase, Plasminogen-binding protein, Skeletal muscle enolase.
Calculated MW	Calculated MW: 47 kDa; Observed MW: 47 kDa
Uniprot ID	P06733
Gene ID	2023
Background	Multifunctional enzyme that, as well as its role in glycolysis, plays a part 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.MiscellaneousUsed as a diagnostic marker for many tumors and, in the heterodimeric form, alpha/gamma, as a marker for hypoxic brain injury after cardiac arrest. Also marker for endometriosis. Antibodies against alpha-enolase are present in sera from patients with cancer-associated retinopathy syndrome (CAR), a progressive blinding disease which occurs in the presence of systemic tumor growth, primarily small-cell carcinoma of the lung and other malignancies. Is identified as an autoantigen in Hashimoto encephalopathy (HE) a rare autoimmune disease associated with Hashimoto thyroiditis (HT). HT is a disorder in which destructive processes overcome the potential capacity of thyroid replacement leading to hypothyroidism.



Western Blot - Anti-ENO1/2/3 Rabbit mAb [99K55L22]

All lanes: R012931 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lane 3: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 4: U2OS (Human osteosarcoma epithelial cell) whole cell lysates

Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lane 6: Rat spleen whole tissue lysates

Lane 7: Mouse small intestine whole tissue lysates

Lane 8: Mouse kidney whole tissue lysates

Lane 9: Mouse muscle whole tissue lysates

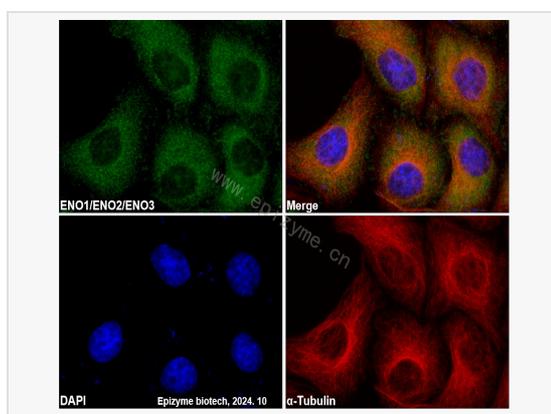
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 47 kDa

Observed band size: 47 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-ENO1/2/3 Rabbit mAb [99K55L22]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R012931 at 1:100 dilution and α -tubulin Mouse Monoclonal

Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and

Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).