

γ Enolase (NSE-P2): sc-21737

BACKGROUND

Enolases have been characterized as highly conserved cytoplasmic glycolytic enzymes that may be involved in differentiation. Three isoenzymes have been identified, α Enolase, β Enolase and γ Enolase. α Enolase expression has been detected on most tissues, whereas β Enolase is expressed predominantly in muscle tissue and γ Enolase is detected only in nervous tissue. These isoforms exist as both homodimers and heterodimers, and they play a role in converting phosphoglyceric acid to phosphoenolpyruvic acid in the glycolytic pathway.

CHROMOSOMAL LOCATION

Genetic locus: ENO2 (human) mapping to 12p13.31; Eno2 (mouse) mapping to 6 F2.

SOURCE

γ Enolase (NSE-P2) is a mouse monoclonal antibody raised against amino acids 271-285 of γ Enolase of human origin.

PRODUCT

Each vial contains 200 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

γ Enolase (NSE-P2) is available conjugated to agarose (sc-21737 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-21737 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-21737 PE), fluorescein (sc-21737 FITC), Alexa Fluor[®] 488 (sc-21737 AF488), Alexa Fluor[®] 546 (sc-21737 AF546), Alexa Fluor[®] 594 (sc-21737 AF594) or Alexa Fluor[®] 647 (sc-21737 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-21737 AF680) or Alexa Fluor[®] 790 (sc-21737 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

γ Enolase (NSE-P2) is recommended for detection of γ Enolase of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for γ Enolase siRNA (h): sc-37045, γ Enolase siRNA (m): sc-37046, γ Enolase shRNA Plasmid (h): sc-37045-SH, γ Enolase shRNA Plasmid (m): sc-37046-SH, γ Enolase shRNA (h) Lentiviral Particles: sc-37045-V and γ Enolase shRNA (m) Lentiviral Particles: sc-37046-V.

Molecular Weight of γ Enolase: 50 kDa.

Positive Controls: γ Enolase (h): 293T Lysate: sc-170262, Y79 cell lysate: sc-2240 or IMR-32 cell lysate: sc-2409.

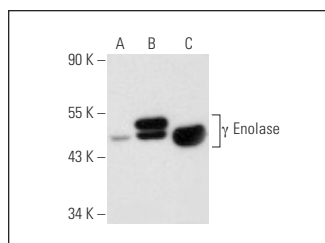
STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

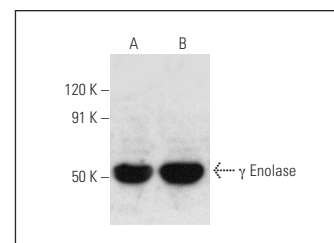
RESEARCH USE

For research use only, not for use in diagnostic procedures.

DATA



γ Enolase (NSE-P2): sc-21737. Western blot analysis of γ Enolase expression in non-transfected 293T: sc-117752 (A), human γ Enolase transfected 293T: sc-170262 (B) and Y79 (C) whole cell lysates.



γ Enolase (NSE-P2): sc-21737. Western blot analysis of γ Enolase expression in IMR-32 (A) and SK-N-SH (B) whole cell lysates.

SELECT PRODUCT CITATIONS

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- Majc, B., et al. 2022. Upregulation of cathepsin X in glioblastoma: interplay with γ -Enolase and the effects of selective cathepsin X inhibitors. *Int. J. Mol. Sci.* 23: 1784.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.