γ Enolase (NSE-P1): sc-21738

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-P1) is a mouse monoclonal antibody raised against amino acids 416-433 of γ Enolase of human origin.

PRODUCT
Each vial contains 200 µg IgG κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

γ Enolase (NSE-P1) is available conjugated to agarose (sc-21738 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-21738 HRP), 200 µg/ml, for WB, HRP and ELISA; to either phycoerythrin (sc-21738 PE), fluorescein (sc-21738 FITC), Alexa Fluor® 488 (sc-21738 AF488), Alexa Fluor® 546 (sc-21738 AF546), Alexa Fluor® 594 (sc-21738 AF594) or Alexa Fluor® 647 (sc-21738 AF647), 200 µg/ml, for WB (RGB), IF, IHC(PO) and FCM; and to either Alexa Fluor® 680 (sc-21738 AF680) or Alexa Fluor® 790 (sc-21738 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS
γ Enolase (NSE-P1) 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 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).


Molecular Weight of γ Enolase: 50 kDa.
Positive Controls: IMR-32 cell lysate: sc-2409, SK-N-SH cell lysate: sc-2410 or Y79 cell lysate: sc-2240.

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

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

DATA
γ Enolase (NSE-P1) Alexa Fluor® 680: sc-21738 AF680. Direct near-infrared western blot analysis of γ Enolase expression in IMR-32 (A); Hep G2 (B); SH-SY5Y (C); SK-N-SH (D). Enolase-2A (E) and Y79 (F) whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214.

γ Enolase (NSE-P1): sc-21738. Immunoperoxidase staining of formalin fixed, paraffin-embedded human brain tissue showing neuropil staining (A). γ Enolase (NSE-P1)HRP: sc-21738 HRP. Direct immunoperoxidase staining of formalin fixed, paraffin-embedded rat brain tissue showing cytoplasmatic staining of neuronal and glial cells and neuropil staining. Blocked with 0.25X UltraCruz® Blocking Reagent: sc-516214 (B).

SELECT PRODUCT CITATIONS

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