**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 IgG1 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, IHC) 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) 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.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**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 1:100-1:10000), immunoprecipitation (1-2 μg per 100-500 μg of total protein [1 ml of cell lysate]), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:5000) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).


Molecular Weight of γ Enolase: 50 kDa.


**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**

![Western blot analysis of γ Enolase expression in IMR-32 (A), SK-N-SH (B), EOC 20 (C) and Neuro-2A (D) whole cell lysates.](image1)

![Immunoperoxidase staining of formalin fixed, paraffin-embedded human brain tissue showing neuronfilament staining.](image2)

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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